

# *Reviews*

## **ANNUAL INDEX**

**VOLUME 23**

**JANUARY-DECEMBER 1970**

AUTHOR INDEX .....	1
SUBJECT INDEX .....	215
SUPPLEMENTAL JOURNAL LISTING .....	277

Section 2 Vol. 24, No. 3 March 1971

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# Reviews

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# Author Index to Applied Mechanics Reviews

Volume 23, January-December 1970

## FEATURE ARTICLES

	Issue	Pages		Issue	Pages
Smith, A. M. O. A Decade of Boundary-Layer Research	Jan.	1-9	Rohsenow, Warren M. Film Condensation	May	487-495
Ashley, Holt Aeroelasticity	Feb.	119-129	Nemat-Nasser, S. Thermoelastic Stability under General Loads	June	615-624
Zienkiewicz, O. C. The Finite Element Method: From Intuition to Generality	Mar.	249-256	Hutchinson, J. W., and Koiter, W. T. Postbuckling Theory	Dec.	1353-1366

## A

Aalami, B. Large deflection behavior of rectangular orthotropic plates under transverse and in-plane loads	171	Abdel-Samad, S. R. Analysis of box girders with diaphragms	344	Abhyankar, K. D. See Fymat, A. L.	8424
Abarbanel, S. An iterative finite-difference method for hyperbolic systems	1630	Abdel-Sayed, G. Effective width of thin plates in compression	3433	Abibov, A. L. Study of the residual (internal) stresses in reinforced epoxy resin	9553
The motion of shock waves and products of detonation confined between a wall and a rigid piston	7242	Effective width of steel deck-plate in bridges	4491	Abir, D. Contributions to mechanics: Markus Reiner eightieth anniversary volume	1727
Abas, S. The effect of a parallel magnetic field on the stability of free boundary-layer type flows of low magnetic Reynolds number	9867	Abdul-Baki, A. Analysis of helicoidal girders	5405	Aboudi, J. See Alterman, Z. S.	6428
Abashkin, B. I. Piezoelectric measurement of short pressure waves	7079	Bearing capacity of foundations on sand	9508	Alterman, Z. S.	7560
Abbott, C. E. See Sartor, J. D.	6673	Abe, H. A nonlinear shell theory and its application to circular cylinders	2649	Abramenko, O. B. Influence of some design features of the flow section on the efficiency of the low pressure cylinder	5720
Abbott, D. E. See Koob, S. J.	2892	Thick circular cylindrical shell under shear deformation	6049	See also Kirsh, A. K.	3045
Abbott, M. B. Two transients for a radial nearly-horizontal flow	2054	See also Nishiki, T.	8793	Abramenko, T. N. See Shashkov, A. G.	1311
Abbott, T. N. G. Rheometrical flow systems: Part 2, Theory for the orthogonal rheometer, including an exact solution of the Navier-Stokes equations	8015	Abe, T. Deformation of polycrystalline metal composed of anisotropic crystals having linear stress-strain relation	8530	Abramov, A. I. See Sterman, L. S.	5687
Abdel-Azim, O. The Reynolds-number dependence of radial impellers	4667	See also Taira, S.	2613	Abramov, L. T. Stress distribution in soils under static loading	9503
		Abe, Y. See Takao, K.	9116	Abramov, S. K. A device for the investigation of the impact properties of plastics	1114
		Abel, I. Evaluation of a technique for determining airplane aileron effectiveness and roll rate by using an aerodynamically scaled model	9900	Abramov, V. G. See Strunina, A. G.	9122
		Aben, H. K. Magnetophotoelasticity: Photoelasticity in a magnetic field	8730	Abramova, G. Ya. Computation of connecting joints of thin-walled structures	5421
		Abgarian, K. A. Stability of motion over a finite time interval	6789	Abramson, H. N. Hydroelasticity: With special reference to hydrofoil craft	739
				Abrosimova, G. D. See Bartenev, G. M.	4536

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Absi, E.**  
Use of numerical calculation and scale models for the study of constructions 351  
Finite element method 6243
- Abu-Akeel, A. K.**  
The electrodynamic vibration absorber as a passive or active device 5245
- Abu-Romia, M. M.**  
Radiation effect on the enthalpy and velocity distributions of a laminar, compressible, planar free jet 9817
- Abu-Sitta, A. M.**  
Oscillating flow in ducts of arbitrary cross section 3786
- Abu-Sitta, S. H.**  
Experimental research on shells 3404
- Acharaya, A. R.**  
*See* Srinivasan, P. 6961
- Achenbach, E.**  
Distribution of local pressure and skin friction around a circular cylinder in cross-flow up to  $Re = 5 \times 10^6$  3680
- Achenbach, J. D.**  
Forced torsional motion of an inhomogeneous hollow cylinder 211  
Transient shear waves in two joined elastic quarter spaces 1030  
Shear waves in an elastic wedge 9480  
*See also* Reddy, D. P. 2719  
*Voelker, L. E.* 5270
- Achutaramayya, G.**  
Analysis of stratified laminar flow of immiscible liquids in circular and noncircular pipes 4542
- Ackenheil, A. C.**  
Recent developments in grouting for deep mines 6164
- Acker, L. C.**  
Observations on the existence and arbitrariness of the unsteady adiabatic flows of a perfect fluid 8892
- Ackerberg, R. C.**  
On an integral method for backward boundary layers 1223
- Ackermann, J.**  
Attitude control of spin-stabilized bodies 7511
- Ackermann, R. A.**  
Small cryogenic regenerator performance 3013
- Ackert, U.**  
*See* Grundmann, H. 1127
- Ackroyd, J. A. D.**  
Laminar boundary layers behind strong moving shock waves 8908
- Acosta, A. J.**  
*See* Klose, G. J. 10000
- Acrivos, A.**  
*See* Liang, S. F. 1330  
*Leal, L. G.* 4616
- Adachi, N.**  
*See* Tokumaru, H. 5924
- Adam, G.**  
*See* Katriel, J. 4146
- Adams, C. M., Jr.**  
*See* French, D. N. 3851
- Adams, D. M.**  
A realistic measure of combustion efficiency 7469
- Adams, J. C., Jr.**  
Viscous compressible laminar flow in slender axisymmetric channels with adiabatic walls 6378  
Thin viscous shock layer analysis of blunt body stagnation-point air ionization 9661
- Adams, J. J.**  
Application of human transfer functions to system analysis 1597  
*See also* Hurt, G. J., Jr. 7510
- Adams, J. K.**  
*See* Buchwald, V. T. 6702
- Adams, N. J. I.**  
Techniques for the recording and measurement of crack growth during fatigue and fracture toughness testing 7070
- Adams, P. F.**  
*See* Lukey, A. F. 6025
- Adams, R. D.**  
The dynamic properties of unidirectional carbon and glass fiber reinforced plastics in torsion and flexure 7089
- Adams, R. N.**  
Rocket vehicle surface reflectance measurement during retro-rocket firing 4852
- Adams, W. M., Jr.**  
Dynamics of two slowly rotating point-mass vehicles connected by a circular orbit 2548
- Adamson, T. C.**  
Solutions for supersonic rotational flow around a corner using a new co-ordinate system 6342
- Adekola, A. O.**  
Partial interaction between elastically connected elements of a composite beam 5144
- Adelberg, M. L.**  
Phase plane analysis of nonlinear systems using weighted linearization 7801
- Adelman, H. M.**  
Accuracy of modal stress calculations by the finite element method 9376
- Adelman, M.**  
*See* Sharma, K. K. 9002  
*Sharma, K. K.* 9003
- Aderholdt, R. W.**  
Effect of rotating secondary principal axes in scattered-light photoelasticity 8729
- Adrianov, V. N.**  
The role of scattering in radiant heat transfer 3872  
Differential methods of radiant heat transfer calculations 7434  
The effect of selectivity of radiation on heat transfer in furnace 8210
- Advani, S. H.**  
Nonlinear transverse vibrations and waves in spinning membrane disks 6088
- Aerts, E.**  
The magnetohydrodynamical drag or artificial satellites 9881
- Aertssen, G.**  
Ship-model correlation of five similar cross-channel twin screw motor ships 8374
- Afanasev, Yu. A.**  
Determination of heat resistance during accelerated heating of specimens 4445
- Afanaseva, L. M.**  
Deformation of an elastic conical shell of variable thickness 2636  
Direct determination of the critical state for a flexible shallow shell of revolution 6928  
*See also* Kantor, B. Ya. 947
- Afanasyev, V. A.**  
Diffraction of a plane wave on a rigid half-plane fixed to the surface of an elastic half-space 6111
- Afendik, L. G.**  
Inelastic bending of a tube with a considerable curvature 3389
- Affleck, W. S.**  
Run-on in gasoline engines 8252
- Agae, M. Kh.**  
*See* Amenzade, Yu. A. 8823
- Agae, N. A.**  
Viscosity of ordinary and heavy water at high pressures in the 0-150° temperature range 5465
- Agae, T. Yu.**  
The elastic equilibrium of a round plate with a tight washer 9331
- Agafonov, V. I.**  
Study of a non-cylindrical Z-pinch with currents exceeding 1 MA 4824
- Agalovyan, L. A.**  
On the theory of bending of orthotropic shells 5175
- Agarwal, R.**  
Stress concentrations around horizontal circular tunnels 299
- Agarwal, R. K.**  
Stresses and displacements around a circular tunnel in a three-layer medium: Part 1, Use of a "finite element" model in the analyses of stress and displacement distributions in a plate under simple loading (vertical, horizontal and mid-layer) 8689  
Stresses and displacements around a circular tunnel in a three-layer medium: Part 2, Similitude relations for a general linear nonhomogeneous model. Finite element analyses of stress and displacement fields for some combined loading conditions. Comparison of plane stress and plane strain solutions 8690
- Agarwal, S. K.**  
Optimum scheduling of hydrothermal system 8484  
*See also* Bhatnagar, N. S. 874
- Ageev, Zh. S.**  
Automatic optimization of the flight of a space vehicle for a regime corresponding to maximum aerodynamic performance 5776

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Aggarwal, H. R.**  
The effect of couple-stresses on the diffraction of plane elastic waves by cylindrical discontinuities 1045
- Aggarwal, J. K.**  
See McClamroch, N. H. 6800
- Aggarwal, R. P.**  
Large signal dynamics of load-frequency control systems and their optimization using nonlinear programming: Part 1 1685
- Aggarwala, B. D.**  
See Iqbal, M. 5654
- Agostinelli, C.**  
Some integral formulas in magneto-hydrodynamics 6552
- Agranat, B. A.**  
Criterion for evaluating intensity of ultrasonic cavitation  
Effect of static pressure on the acoustical properties of a cavitating liquid 6319  
9938
- Agrawal, G. L.**  
See Gottenberg, W. G. 3365
- Agrawal, G. S.**  
See Agrawal, S. C. 4561  
Agrawal, S. C. 6545
- Agrawal, S. C.**  
Effect of cross-velocity on the stability of superposed fluids  
Hydromagnetic stability of heterogeneous shear flow 4561  
6545
- Agrawal, S. K.**  
Membrane creep of anisotropic plates 3409
- Agrawal, V. K.**  
Effect of lubricant inertia in bearings  
Inertia effect in hydromagnetic slider bearing 5871  
6733
- Ahlbeck, D. R.**  
See Meacham, H. C. 4233
- Ahlborn, B.**  
Stability and space-time measurements of concentric detonations 6622
- Ahlert, R. C.**  
Joule-Thomson effects in gas mixtures: The nitrogen-methane-ethane systems 4708
- Ahlstrom, H. G.**  
See Mullaney, G. J. 5623
- Ahluwalia, D. S.**  
Reflection of elastic waves from cylindrical surfaces 3479
- Ahmad, J.**  
Dynamic post-buckling characteristics of circular plates 7798
- Ahmed, N.**  
Nonlinear flow in porous media 8343
- Ahouse, D. R.**  
An experimental flow field study of the rarefied blunt body problem 8896
- Ahrens, T. J.**  
See Thomson, K. C. 9543
- Aida, S.**  
Theory and applications of IMICTRON: A control element having mechanisms of a living neuron 809
- Aida, T.**  
Bending strength design of gears 2025
- Aiken, R. T.**  
Propagation from a point source in a randomly refracting medium 4881
- Ailion, D. C.**  
See Pratt, J. P. 7399
- Ailor, W. H., Jr.**  
Aluminum corrosion at urban and industrial locations 3555
- Ainola, L. Ia.**  
Variational methods for nonlinear equations of motion of shells 5230
- Ainsworth, J. H.**  
The frequency-phase technique for damping measurements applied to several materials at elevated temperatures 5242
- Airey, E. M.**  
Gas emission from broken coal: An experimental and theoretical investigation 1408
- Aizenberg, Y. M.**  
Influence of local destructions in frame buildings on seismic and impulse action 6273
- Aizerman, M. A.**  
A note on two problems connected with pattern recognition 8451
- Ajovalasit, A.**  
Separation of principal stresses along sections of symmetry by means of isopachic patterns 2771
- Akaike, S.**  
See Toyokura, T. 4675
- Akama, H.**  
Relativistic Boltzmann equation for plasmas 6575
- Akamatsu, T.**  
The two-parameter integral method for unsteady laminar incompressible boundary layer over a semi-infinite flat plate  
A generalized solution of quasi-steady laminar flat plate boundary layer in a shock tube 1236  
4617
- Akazawa, M.**  
Torsional vibration in geared diesel system 2697
- Akhmatkhodzhaev, B.**  
Approximate solution of the three-body problem with a local potential 9318
- Akhmerov, A. F.**  
An application of linearly sliding and linearly rotating hardening moduli to the solution of some technological problems of the plasticity theory 5112
- Akhmetzyanov, M. Kh.**  
Strain measurement by means of interferometric strain gauges  
See also Aleksandrov, A. Ya. 4433  
7740
- Akhremenko, V. L.**  
Investigation of plane specimens under biaxial tension 6227  
See also Kozlov, I. A. 317
- Aki, K.**  
Seismic displacements near a fault 7566
- See also Tsai, Y.-B. 710  
Ware, J. A. 2367
- Akin, J. E.**  
The application of continued fractions to wave propagation in a semi-infinite elastic cylindrical membrane 1029
- Akita, Y.**  
On ultimate strength of plate girders 3421  
See also Ikeda, K. 5323
- Akselrud, G. A.**  
Kinetics of solution of a bed overlain by a solid porous medium 3180
- Akulenko, L. D.**  
On the analysis of resonances in nonlinear systems 3315  
On the oscillatory and rotational resonant motions 5215  
Steady state motions in autonomous systems with a deviating argument 6940  
Steady rotational-oscillatory motions in a system whose unperturbed motion is stable 6941
- Akulichev, V. A.**  
Statistical characteristics of cavitation phenomena 661  
Experimental investigation of an elementary cavitation zone 1495  
Pulsations of cavitation bubbles in an ultrasonic field wave 2379
- Al-Abdulla, J. K.**  
See Saul, W. E. 3628  
Cook, R. D. 7639
- Aladyev, I. T.**  
Hydrodynamics of a two-phase flow of potassium in tubes  
Heat transfer to boiling potassium in uniformly heated tubes 5484  
7441  
See also Sevastyanov, R. I. 3876
- Albasiny, E. L.**  
Bending and membrane equilibrium in cooling towers 2641
- Albertin, L.**  
Effects of planishing and thermal treatments on welded Ti-6Al-4V alloy 1907
- Albertini, C.**  
A correlation of nondestructive testing with destructive testing of Zircaloy-steel welded joints for reactor pressure tubes 1971
- Albertson, M. L.**  
See Tullis, J. P. 5460
- Alblas, J. B.**  
Moment stresses in fluids with a dipolar microstructure 4534
- Albrekht, E. G.**  
Effect of a nonholonomic constraint on the stabilizability of a mechanical system 2552
- Album, H. H.**  
Hypersonic laminar separation on a cone with slip flow 7307
- Alcock, E. D.**  
The influence of geologic environment on seismic response 1533
- Aldridge, K. D.**  
Axisymmetric inertial oscillations of a fluid in a rotating spherical container 2932

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Aleksandrov, A. A.**  
See Vukalovich, M. P. 4707
- Aleksandrov, A. G.**  
Analytic design of an optimal regulator for a gyro gimbal mounted on a moving base 1686
- Aleksandrov, A. Ya.**  
Investigation of inelastic problems by reproduction of the deformation history 7740
- Aleksandrov, V. M.**  
Asymptotic solution of a class of integral equations encountered in the investigation of mixed problems of mathematical physics for regions with cylindrical boundaries 10  
A contact problem for an elastic wedge with a rigidly fastened edge 1721  
Axisymmetric problem of the action of an annular die on an elastic half-space 4231  
Some mixed three-dimensional problems in the theory of elasticity 5985  
Asymptotic solution of the contact problem for a thin elastic layer 7712
- Aleksandrova, A. Ya.**  
Raschety elementov aviatsionnykh konstruktov Vyp. 4 (Stress analysis of aircraft structure details, Issue 4) 938
- Alekseev, B. V.**  
Transport phenomena in reacting gas mixtures 8973
- Alekseev, N. V.**  
On the stressed state of a drill in the case of torsion 8522
- Alekseeva, M. K.**  
The stress state of plates, weakened by opening, at large elastic displacements 174
- Alekseeva, R. N.**  
Optimum parameters of an ideal turbine stage 1281  
The effect of the pitch-chord ratio of moving blade cascades on the efficiency of the tip sections of a stage with long blades 5612
- Alekseevskii, V. P.**  
Penetration of a rod into a target at high velocity 4335
- Alekseyev, B. V.**  
Boundary layer and chemical reactions 3751
- Aleksin, V. F.**  
Stability of a plasma with anisotropic pressure in a helical magnetic field 3945
- Aleshkin, F. I.**  
A method of protecting annular specimens from oxidation during high-temperature relaxation testing 9951
- Alex, W.**  
Particle-size analysis 6663
- Alexander, H.**  
See Kerr, A. D. 2627
- Alexander, S. S.**  
See Phinney, R. A. 2408
- Alexandrian, M. A.**  
On some dual integral equations with Legendre functions 11
- Alfirevic, I.**  
Photoelastic determination of the stress concentration factors in anisotropic materials 2773
- Alfirevich, I.**  
See Dally, J. W. 308
- Alfred, M.**  
Tableaux de compatibilite des materiaux de frottement (Tables of compatibility of materials of friction) 4087
- Alfutov, N. A.**  
Energy criterion of the stability of elastic bodies which does not require the determination of the initial stress-strain state 6052
- Alfvén, I.**  
Poor man's guide to celestial mechanics 8290
- al-Gain, A. A.**  
See Kao, S.-K. 4936
- Al-Hassani, S. T. S.**  
The dynamics of the fragmentation process for spherical shells containing explosives 8706
- Ali, K. H. M.**  
See Whittington, R. B. 5456
- Ali, M. A.**  
See Grimer, F. J. 5393
- Ali, M. R. M. H.**  
See Williams, T. J. 1476
- Aliiev, R. L.**  
Large deflections of a nonlinear elastic ring under external pressure 3424
- Alievskii, B. L.**  
Calculation of a minimum weight cylindrical-helical DC induction pump 5753
- Ali Kettani, M.**  
Fast randomization of an electron gas by trapped electro-acoustic waves 3955
- Alimbekov, Z. G.**  
See Proskuryakov, Yu. G. 3524
- Alippi, A.**  
Standing-wave-ratio determination of an ultrasonic wave by a holographic method 6644  
Ultrasonic field analysis by holography 9139
- Allan, T.**  
One-way buckling of elastically restrained columns 7784
- Allen, C. M.**  
Boundary layer lubrication: Monolayer or multilayer 8391
- Allen, D.**  
See Harker, J. H. 3036
- Allen, D. A.**  
See Harker, J. H. 2293
- Allen, J.**  
Water surface profiles in gradually varied open-channel flow 3671
- Allen, J. B.**  
Estimation of transfer functions using the Fourier transform ratio method 9232
- Allen, J. M.**  
Charts for interpolation of local skin friction from experimental turbulent velocity profiles 3769  
Experimental Preston tube and law-of-the-wall study of turbulent skin friction on axisymmetric bodies at supersonic speeds 5554
- Allen, J. S.**  
Numerical solutions of the compressible Navier-Stokes equations for the laminar near wake 8058
- Allen, M.**  
Elastic torsion in wires under tension 4434  
See also Saxl, E. J. 8492
- Allen, S. J.**  
See Kline, K. A. 3253  
Kline, K. A. 4119  
Kline, K. A. 7414
- Allen, W. A.**  
Differential corrections applied to an Izsak-Borchers ballistic trajectory 6611
- Allentuch, A.**  
Stresses in eccentric stepwise discontinuous rings with transition sections 5179
- Allison, L. J.**  
Examples of the usefulness of satellite data in general atmospheric circulation research: Part 1. Monthly global atmospheric circulation characteristics as reflected in TIROS VII radiometric measurements 9983  
See also Warnecke, G. 8365
- Almazov, A. B.**  
Solution of an equation of motion of an anharmonic oscillator without friction 3439
- Almond, E. A.**  
The fracture of pressurized laminated cylinders 7057
- Almroth, B. O.**  
An experimental investigation of the buckling of toroidal shells 9415
- Al-Najafi, A. M. J.**  
See Warburton, G. B. 3456
- Al-Qishtaini, M. A.**  
See Halling, J. 2442
- Al-Sikafi, Q. H.**  
Stress distribution around holes at the ends of a crack 2772
- Alt, F.**  
Biomedical sciences instrumentation: Vol. 1 1592
- Alterman, Z. S.**  
Impulsive sound propagation in a fluid sphere of variable internal friction 6428  
Seismic source in a layered sphere: Reflected and diffracted pulses 7560  
Finite difference solution for pulse propagation in a sphere 9967

- Altman, F. D.  
See Foltz, J. V. 9128
- Altman, M.  
A generalized gradient method of minimizing a functional on a non-linear surface with application to nonlinear programming 8432  
A general maximum principle for optimization problems with operator inequalities 9236  
See also Sreenivasan, K. 8988
- Altman, W.  
Stresses in thin conical shells 2639
- Altshuler, B. A.  
Deformation of eccentrically compressed reinforced concrete elements subject to variable temperatures 7128
- Alvarez, J. M.  
Statistical analysis of meteoroid penetration data including effects of cutoff 5774
- Alvarez, R. J.  
Inelastic analysis of multistory multibay frames 6257
- Alverson, R. C.  
See Aggarwal, H. R. 1045
- Alwang, W. G.  
Continuous butt welding using a carbon dioxide laser 2036
- Alzheimer, W. E.  
See Forrestal, M. J. 5095  
Forrestal, M. J. 6993
- Amaftiesei, R.  
Implicit solution for equations of the unsteady flow in open channels 400
- Amann, H. O.  
Experimental study of the starting process in a reflection nozzle 3716
- Amano, K.  
A study on regional economic efficiency of improving transportation facilities 22
- Amazigo, J. C.  
See Hutchinson, J. W. 6069
- Amba-Rao, C. L.  
Fourier transform methods in elasticity problems and an application 2566
- Ambartsumyan, S. A.  
Theory with transverse shear deformation of shells of revolution made of materials with different moduli 4264  
The basic equations of the theory of elasticity for materials with different tensile and compressive strengths 5983
- Ambraseys, N. N.  
Large earthquake forces on gravity dam 2018  
The Dasht-e Bayaz (Iran) earthquake of August 31, 1968: A field report 7565
- Amenitskiy, A. N.  
A transducer for measuring pressure fluctuation 3848
- Amenzade, Yu. A.  
The elastic equilibrium of a round plate with a tight washer 9331
- Ames, W. F.  
Numerical methods for partial differential equations 6772  
Waves in tires: Part I, Literature review on traveling waves; Part II, Traveling-waves analysis 9479
- Amin, M.  
See Ang, A. H.-S. 3590
- Amsel, G.  
Sampling and averaging techniques in the analysis of fast random signals 9468
- Amtmann, E.  
The distribution of breaking strength in the human femur shaft 4977
- Amyot, P.  
Construction of the containment building for the Gentilly nuclear power reactor 2006
- Anand, G. V.  
Stability of nonlinear oscillations of stretched strings 1821  
Large-amplitude damped free vibration of a stretched string 2676
- Anand, R. K.  
See Quarby, A. 4757  
Quarby, A. 6514
- Anandakrishnan, M.  
Laboratory determination of radial permeability of soils 3506
- Ananov, G. D.  
Graphoanalytical method of solving three-dimensional problems 7989
- Ananthakrishnan, V.  
See Gill, W. N. 2120
- Ananthasayanam, M. R.  
Approximate solutions for the structure of shock waves 436
- Anastasesco, C.  
Calculation of the "influence diagram" of prestressed concrete orthogonal spatial frames 9588
- Anderheggen, E.  
Finite element plate bending equilibrium analysis 1760
- Andermann, F.  
Plaques rectangulaires chargees dans leur plan: Analyse statique (Rectangular plates loaded in their plane: Analysis of stresses) 5146
- Anders, J. B.  
Wedge-induced laminar-boundary-layer separation on a flat plate in low-density, hypervelocity flow 5565
- Anderson, A. D.  
See Denman, H. H. 7623
- Anderson, B. D. O.  
Stability properties of linear systems in phase-variable form 5930
- Anderson, B. H.  
Characteristic design study of mixed-compression two-dimensional inlets with low-angle cowls for the Mach number range 2.70 to 1.80 2891  
Characteristics study of a bicone mixed-compression inlet for Mach 1.80 to 2.50 4583
- Anderson, C. H.  
Series representation of solutions to linear differential-difference equations of advanced type with constant coefficients 2467
- Anderson, D.  
See Majid, K. I. 3588
- Anderson, D. A.  
An analysis of the effect of design and measurement errors on pump performance parameters 8157
- Anderson, D. L.  
Universal dispersion tables: Part 3, Free oscillation variational parameters 4057
- Anderson, D. U.  
SIMCON—simulation control to optimize man-machine interaction 6780
- Anderson, G.  
On the determination of finite integral transforms for forced vibrations of circular plates 3449
- Anderson, G. B.  
Studies of calibration procedures for load cells and proving rings as weighing devices 3572
- Anderson, G. L.  
Free extensional vibrations in plate strips 8611  
See also Walter, W. W. 9735
- Anderson, G. M.  
Relativistic rocket flight with constant acceleration 630
- Anderson, J. D.  
Improvement of astronomical constants and ephemerides from Pioneer radio-tracking data 1466
- Anderson, J. D., Jr.  
An engineering survey of radiating shock layers 4740
- Anderson, J. J.  
Real-time computer control of urban runoff 4925
- Anderson, J. M.  
Vibration of a cantilever subjected to a tensile follower force 986
- Anderson, J. S.  
See Williams, T. J. 1476
- Anderson, M. S.  
See Bohon, H. L. 2332
- Anderson, M. W.  
Analysis of an integral equation arising from the investigation of vertical directivity of sea noise 1478
- Anderson, N. G.  
Preparative particle separation in density gradients 699
- Anderson, R. A.  
On the resonance properties of quasilinear second-order differential-difference equations 6762
- Anderson, T. L.  
Parametric vibration response of columns 2664
- Anderson, W. E.  
Estimating cracking behavior of metallic structures 8711
- Anderson, W. J.  
See Spriggs, J. H. 3973

- Anderson, W. J. (*Continued*)
- Fleming, D. P. 4973  
Nemeth, Z. N. 5875  
Schuller, F. T. 10013
- Anderson, W. N., Jr.  
Series and parallel addition of matrices 4138
- Anderson, W. W.  
An adaptive controller for space base spin plane orientation 9909
- Anderssen, R. S.  
Least squares methods in data analysis 780  
The numerical solution of parabolic differential equations using variational methods 3301
- Andersson, G.  
A method for the calculation of vertical vibration with several nodes and some other aspects of ship vibration 4308
- Andersson, H.  
Stress-intensity factors at the tips of a star-shaped contour in an infinite tensile sheet 7897  
Analysis of a nonlinear crack model 7900
- Ando, Y.  
Effect of cloth covers on sound absorption of glass fiber 4883
- Andreassen, G. F.  
Evaluation of friction forces in the  $0.022 \times 0.028$  edgewise bracket in vitro 10023
- Andreev, A. I.  
Construction of a measuring device for small displacements 4462
- Andreev, L. S.  
On verifying the laws of plasticity in stress space 6873
- Andreev, L. V.  
The stability of cylindrical shells of variable thickness 968  
An experimental investigation of the stability of a cylindrical shell subject to a local external pressure 6930
- Andreev, V. D.  
Determining the coefficients of the Legendre polynomial expansion of the Earth's gravitational potential 9314
- Andreev, V. P.  
See Kobrin, M. M.
- Andreev, Yu. N.  
Approximation of optimal control for a distributed system 9304
- Andreeva, K. S.  
See Zinger, N. M. 3888
- Andreeva, L. E.  
Numerical solution of the problem of large deflections of corrugated membranes 4263
- Andrei, S.  
Apa in paminturile nesaturate (Water in nonsaturated soils) 7016
- Andreikiv, A. E.  
See Panasyuk, V. V. 4392
- Andrew, C.  
See Stone, B. J. 4318  
Sutherland, I. A. 6971  
Wolfe, C. J. 6973
- Andrews, D. J.  
See Hofmann, R. 238
- Andrews, F. A.  
See Serbyn, M. R. 223  
Kuhn, G. F. 6626
- Andrews, R.  
See Nigro, N. J. 1880
- Andrews, R. C.  
See Kirschler, L. H. 5826
- Andreyev, P. A.  
Forced convection heat transfer to boiling water in pipes and channels 9794
- Andreyev, V.  
See Panchev, St. 6708
- Andriankin, Z. I.  
Spreading of a viscous drop under impact 5495
- Andritzky, H.  
Axial thrust measurements on centrifugal fans 8956
- Andryushchenko, A. I.  
Steam-gas plants with a pressurized economizer 5723
- Ang, A. H. S.  
Safety factors and probability in structural design 3590  
See also Crose, J. G. 1759
- Ang, D. D.  
See Mal, A. K. 1027
- Angeli, L.  
Stiffened pyramidal shell 7774
- Anglin, E. L.  
See Chambers, J. R. 1256  
Chambers, J. R. 4643
- Angrist, S. W.  
See Vutz, N. 8990
- Anicin, B. A.  
See Ilic, D. B. 9861
- Anisimov, A. I.  
Ultra-high-frequency plasma heating in a magnetic field 9888
- Anisimov, A. M.  
Application of finite-difference methods to the calculations of axially symmetric vibrations of shells of revolution with liquid 7352
- Anisimov, V. D.  
Smoothing and prediction of the orbital elements of artificial Earth satellites by means of the stochastic approximation method 6618
- Ankudinow, W. K.  
Non-periodical forces and moments on a ship in waves 4956
- Annin, B. D.  
Elastic-plastic stress distribution in a plane with an aperture 6847
- Anolik, M. V.  
Estimate of the mean-square error of a discrete differentiator in the presence of random noise 775
- Ansah, A. M.  
Positive Gaussian curvature translational shells with edge rib supports 940
- Ansari, J.  
Design of a thermostat for precise temperature control from  $-190$  deg to  $+650$  deg C 5941
- Ansell, R. H.  
A study of some factors which affect the strength of screws and their insertion and holding power in bone 752
- Anson, W. A.  
See Dewey, J. M. 4689
- Antans, V. P.  
Creep of reinforced plastics in uniaxial tension along the fibers 122
- Antifeev, V. A.  
See Baskakov, A. P. 1377
- Antoine, A. C.  
Thermodynamic properties of liquid metal solutions in the cesium-mercury system 9768
- Anton, I.  
Contributions to the defining of the energetic and cavitation characteristics of hydrofoil cascades in axial turbines and pumps 2176  
Inception of cavitation in the two-dimensional and periodical motion 8161
- Antonenko, V. M.  
Device for programming high temperature strength of brittle materials 4037
- Antonescu, P.  
Contributions to the kinematical synthesis of spatial slider-crank mechanisms 9606
- Antonia, R. A.  
Radial diffusion with swirl 2948
- Antonishin, N. V.  
See Nikitin, V. S. 2277
- Antonov, A. M.  
See Bukus, I. A. 10014
- Antonova, A. M.  
Approximate methods of solving nonlinear differential equations of hypersonic aerodynamics 6347
- Antontsev, S. N.  
Boundary problems with discontinuous boundary conditions for quasi-linear elliptical systems  $2m(m \geq 1)$  of equations of the first order 4993
- Antosyak, E. I.  
See Pogopetskaya, L. N. 3892
- Antufev, V. M.  
Intensification of heat transfer of cross-flow finned surfaces 2271
- Anufriev, A. A.  
Electronic equipment for measuring the temperature of transient processes in the range  $500-2000^\circ\text{K}$  4719
- Anwar, H. O.  
Behavior of buoyant jet in calm fluid 2056
- Aoki, H.  
See Katto, Y. 565
- Aoki, M.  
See Kanazawa, T. 1919
- Aoki, R.  
Influence of the shapes of particle on the angle and the packing properties of granular materials: The reposed angle, the angle of internal friction and porosity 3165

- Aoshima, N.  
Measurement of the wave propagation by correlation techniques 7849
- Aoyagi, K.  
Investigation of a 0.3-scale jet-transport model having a jet-augmented boundary-layer-control flap with direct-life control capability 4637
- Aoyagi, Y.  
See Mitsuishi, N. 3664
- Apanasewicz, S.  
Influence of geometrical parameters upon the magnitude of turning moments in viscous flow between two concentric cylinders 8043
- Apelblat, A.  
Mass transfer with a moving interface 401
- Apetaur, M.  
Empirical calculations of forces and moments in the longitudinal plane of a tire 215
- Apikyan, Zh. G.  
See Alekseeva, R. N. 1281
- Apmann, R. P.  
Experiences with bed sills in stream stabilization 2839  
Diffusion of sediment in developing flow 9635
- Apokorin, D. S.  
Gaussian measures corresponding to generalized stationary processes 1625
- Apostolatos, N.  
Principles of a computer interval arithmetic 5911
- Apostolescu, N.  
Combustion of fuel drop at high pressure 2292
- Apparao, T. V. S. R.  
Columns braced by girts and a diaphragm 360
- Appleton, J. P.  
See Musgrove, P. J. 2193
- Appun, P.  
See Weh, H. 4830
- Apter, H.  
Remarks concerning the optimal control methods of Bellman and Pontryagin 5949
- Apter, J. T.  
Dynamic compliance of living lungs before and after perfusion 6740  
See Chow, J. C. F. 1275
- Arakelian, T. T.  
On strength and plasticity of laminated fabric 1745
- Arase, E. M.  
See Arase, T. 4873
- Arase, T.  
Deep-sea ambient-noise statistics 4873
- Arbhabhirama, A.  
Free streamline analysis of two-dimensional jet 2853
- Arbib, M. A.  
An automata-theoretic approach to linear systems 1642  
On the relevance of abstract algebra to control theory 5004
- See also Kalman, R. E. 9267
- Archambeau, C. B.  
See Smith, S. W. 7865
- Archer, R. D.  
See Milton, B. E. 2191
- Archer, R. R.  
Large deflection of shallow rectangular shell panels 9401
- Arcisz, M.  
Motion of a plastic body with a prescribed deformation path of material fibers 9353  
Lagrangian description of plane plastic flow 9354
- Arefev, V. I.  
Instabilities produced in a plasma by a current flowing across the confining magnetic field 7484
- Arena, J. R.  
How safe are your towers? 3583
- Argyris, J. H.  
A sequel to technical note 15: The SHEBA family of shell elements for the matrix displacement method: Part 3, Large displacements 4468  
Two- and three-dimensional potential flow by the method of singularities 5581  
Two- and three-dimensional flow using finite elements 5582  
The incompressible lubrication problem 6727  
Finite elements in time and space ASKA-automatic system for kinematic analysis: A universal system for structural analysis based on the matrix displacement (finite element) method 6960  
A further sequel to technical note 14: The FUGA family of elements for folded plate structures 7105  
The impact of the digital computer on structural analysis 7107  
The impact of the digital computer on engineering sciences: Parts 1 and 2 7109
- Ariaratnam, S. T.  
Some cases of bifurcation in elastic-plastic solids in plane strain 7781  
See also Dubey, R. N. 4271
- Aribert, J.-M.  
Practical calculations of the Green functions for the solution of two-phase flow in a semi-infinite band of porous material 3183  
Studying interfacial instabilities with Hele-Shaw models 6691
- Ariman, T.  
Buckling of thick plates on an elastic foundation 5197  
On circular micropolar plates 7758
- Arkadev, B. A.  
Solving a nonlinear problem of nonsteady thermal conductivity in solid bodies of arbitrary form 5645
- Arkhangelskii, M. E.  
Acceleration mechanism of heterogeneous processes in a standing-wave sound field 659  
Decrease of dry dynamic friction by means of ultrasonic oscillation 10004
- Arkhangelskii, Ya. A.  
On the multivalued general solution of the equations of motion of a solid about a fixed point in the Newtonian force field 5974
- Armstrong, J. O., III  
See Driscoll, G. C., Jr. 4484
- Armentrout, C. L.  
Channel slope effect on peak discharge of natural streams 9631
- Armstrong, B. H.  
Acoustic emission prior to rockbursts and earthquakes 4011
- Armstrong, E. S.  
A combined Newton-Raphson and gradient parameter correction technique for solution of optimal-control problems 68  
See also Childs, A. G. 1465  
Childs, A. G. 9915
- Armstrong, I. D.  
Natural frequencies of grillages in which torsion can develop 1833
- Armstrong, R. W.  
Strengthening mechanisms and brittleness in metals 1080  
See also Phillips, W. L. 4414
- Arnstein, H. R. F.  
Low-stiffness coupling eliminates torsional vibration 6283  
10,000°C brings new industrial processes nearer 7487
- Arone, R. G.  
Method of evaluating work of crack propagation from appearance of fracture 1097
- Aronson, A. Ya.  
The effect of form perturbations of a middle shell surface on its stress state 6042
- Aronson, D. G.  
Regularity properties of flows through porous media 9158
- Aronsson, B.  
See Nordberg, H. 1938
- Arora, M. K.  
See Warren, F. W. G. 4073
- Arora, S. S.  
On the optimization of a process-type layout 4199
- Arpaci, V. S.  
A thick gas model near boundaries 1347  
See also Vest, C. M. 4528  
Warner, C. Y. 4735
- Arsenev, L. V.  
See Zysin, V. A. 6539
- Arsenin, V. V.  
A possible stabilization of the trough-shaped plasma instability through a feedback system 4812
- Artamonov, A. Ya.  
Equipment for investigating external friction and wear of materials under extreme conditions 2443  
Effect of oxidation of porous sintered materials on the life of cutting tools 3536
- Arthur, W.  
Mechanics 76

- Arthurs, A. M.**  
A generalized Euler-Lagrange equation 4995
- Artobolevskii, I. I.**  
Dynamics of differential gear-train mechanisms 3636  
Characteristic criterion for asymptotically stable limiting motion of a mechanical apparatus 8625  
An interaction procedure for calculating the characteristic criterion of a periodic limiting motion of a machine unit 9462
- Arutiunian, N. Kh.**  
Contact problem for a half-plane with elastic reinforcement 2580
- Arutyunov, Yu. S.**  
Determination of the compression forces and the velocity field during the pressing of a thin wedge of rectangular cross section 6011
- Arya, A. S.**  
Behavior of cellular bridge piers under dynamic loads 7986
- Arya, S. P. S.**  
Modeling of the stably stratified atmospheric boundary layer 2418
- Asai, K.**  
*See Sawaragi, Y.* 1677
- Asai, T.**  
Three-dimensional features of thermal convection in a plane Couette flow 9800
- Asakawa, S.**  
*See Jimbo, G.* 742
- Asano, N.**  
Reductive perturbation method for nonlinear wave propagation in inhomogeneous media: Part 1 5271
- Asano, S.**  
A simplified method for calculation of strain dependence of internal friction in transverse vibrations 1005
- Asay, J. R.**  
Ultrasonic technique for determining sound-velocity changes in high-loss materials 663  
Pressure and temperature dependence of the acoustic velocities in polymethylmethacrylate 4024
- Asbeck, H.-O.**  
*See Stuwe, H. P.* 7087
- Ash, J. E.**  
*See Hughes, B. P.* 1111
- Ash, R. L.**  
Response characteristics of thin foil heat flux sensors 9023
- Asher, J. A.**  
An experimental investigation of the formation and flow characteristics of an impulsively generated vortex street 1207
- Ashford, J. R.**  
*See Sowden, R. R.* 7646
- Ashino, I.**  
On the theory of the additional loss at the pipe entrance in viscous fluid: Part 2, When entrance is taper type 3683
- Ashley, H.**  
*See Kacprzyński, J. J.* 481
- Ashton, J. E.**  
Natural modes of vibration of tapered plates 1838  
Shear stability of clamped linearly tapered plates 2660  
Free vibration of linearly tapered clamped plates 2689
- Ashton, J. P.**  
*See Yao, S. T.* 9217
- Ashurst, W. T.**  
*See Emery, A. F.* 3831
- Askadskii, A. A.**  
*See Pavlov, V. I.* 120
- Askar, A.**  
A structural model of a micropolar continuum 850
- Askew, A. J.**  
Variation in lag time for natural catchments 9171
- Askey, R.**  
A convolution structure for Jacobi series 6763
- Askinazi, B. M.**  
Hardening gears by an electro-mechanical process 6287
- Askovic, R.**  
Laminar three-dimensional thermal boundary layer around a body moving with constant acceleration 1229  
On a calculation method of the thermal boundary layer of the laminar unsteady three-dimensional flow of an incompressible fluid 6377
- Askovic, R. V.**  
Qualitative experimental verification of phenomenon of the periodic three-dimensional boundary layer on a body in harmonic motion 8102
- Aslanov, S. K.**  
Study of the stability of slow combustion in a viscous gas mixture 5710  
Calculation of flame wavelength in vibratory combustion in tubes 7463  
Instability criterion for arbitrary deflagration conditions in a rocket-engine combustion chamber with progressive self-ignition of the propellant 7468  
Instability criteria for detonation waves 9121  
An investigation of gasdynamic stability of a detonation wave of arbitrary profile 9919
- Asplund, S. O.**  
Lateral buckling of beams without axial loads 4274
- Astill, A. W.**  
*See Holmes, M.* 7141
- Astill, K. N.**  
The developing tangential velocity profile for axial flow in an annulus with a rotating inner cylinder 7214
- Astok, V. K.**  
*See Aytam, A. M.* 8364
- Aswatha Narayana, P. A.**  
*See Chandrasekhara Swamy, N. V.* 399
- Asztalos, P. A.**  
Comparison of cooling systems for turboalternator rotors 3005
- Atanov, Yu. A.**  
Dielectric transducer of high pressures 4683
- Atherley, G. R. C.**  
Study of tinnitus induced temporarily by noise 1602
- Atherton, D.**  
Exact solution of coil forces for uniform transverse field magnet 589
- Atkins, A. G.**  
*See Caddell, R. M.* 4379
- Atkinson, M.**  
Assessing normal plastic anisotropy from cup drawing loads 7884
- Atsumi, A.**  
The effect of couple-stresses on the stress concentration of a plate containing an infinite row of holes 5067  
*See also Hata, T.* 675  
Kurihara, Y. 6652  
Hata, T. 7550
- Attia, A. Y.**  
Noise of involute helical gears 3124
- Auberlen, F.**  
Practical analysis of rigid-node plate structures 1785
- Aubrecht, L.**  
Ion waves in a partially ionized gas in an external electric field 1422
- Aucoin, P. J.**  
*See Reis, R. J.* 8886
- Augusti, G.**  
On the decomposition of stress and strain tensors into spherical and deviatoric parts 5981
- Austin, F.**  
Planar dynamics of free rotating flexible beams with tip masses 9434
- Austin, W. E.**  
A vibrating vane absolute pressure gage 3812
- Auxer, W. L.**  
*See Nestler, D. E.* 8206
- Avanzolini, G.**  
Self-excited oscillations in system with one nonlinearity 5210
- Aven, O. I.**  
Development of automated control systems 9290
- Avent, R. R.**  
Nonlinear field analysis of structural nets 903
- Averchenko, P. A.**  
Apparatus for determining the damping capacity and torsional fatigue strength of specimens in various media 1113
- Avery, J.**  
*See Emery, A. F.* 5806
- Avitzur, B.**  
Limit analysis of disk and strip forging 1905  
*See Feilbach, W. H.* 1913  
Zimmerman, Z. 9515

- Avkhimovich, B. M.**  
Calculation of unsteady heat conductivity of multilayer plates 2217
- Avula, X. J. R.**  
A combined method for determining velocity of starting flow in a long circular tube 5496
- Awad, A.**  
Considerations on the bearing capacity of vertical and batter piles subjected to forces acting in different directions 1055
- Awadalla, E. S.**  
*See Yetttram, A. L.* 1805
- Awano, T.**  
*See Nakajima, K.* 1909
- Awatani, J.**  
Wear properties of plastics 1569  
Structure changes in metals fatigued at an ultrasonic frequency: Part I Aluminum 7906
- Awojobi, A. O.**  
Determination of the dynamic shear modulus and the depth of the dominant layer of a vibrating elastic medium 9455
- Axelrad, D. R.**  
Application of the laser-beam technique in thermal-shock testing 5829
- Axelrod, Z.**  
Numerical solution of field problems in embounded domains 4156
- Axford, W. I.**  
*See Perona, G. E.* 3935
- Ayache, K.**  
Analyses of the performance of liquid dampers for nutation in spacecraft 8294
- Ayen, R. J.**  
*See Miller, R. C.* 8271
- Aytsam, A. M.**  
Some aspects of calculating the spectra of a random function with periodic components: Example of sea current velocity spectra 8364
- Azarkin, V. A.**  
Converter of small resistance and capacitance deviations into frequency 224
- Azarov, V. S.**  
Effect of embedding a foundation in soil on the magnitude of its tilt 3512
- Azer, N. Z.**  
Radial heat-flux density distribution in fully developed flow of liquid metals in circular tubes 553
- Azhogin, F. F.**  
Corrosion cracking of high-strength structural steels 3558
- Azizov, A. M.**  
Probability analysis of the dynamic properties of a thermal detector 2971  
Systematic error in studying random correlated processes 4996
- B**
- Baba, E.**  
Study on separation of ship resistance components 9991  
A new component of viscous resistance of ships 9992
- Baba, Y.**  
*See Endo, K.* 2058
- Babaev, O. M.**  
Cavitation-free operation of hydrostatic thrust bearings 9203
- Babb, A. F.**  
Performance characteristics of siphon outlets 3668
- Babb, S. E., Jr.**  
*See Robertson, S. L.* 5632
- Babei, Yu. I.**  
Effect of thread cutting technique on the fatigue and corrosion-fatigue strength of steel 1932  
*See also Khitarishvili, M. G. Filevich, M. I.* 298 1100
- Babich, V. V.**  
The stability of composite lattice towers of varying section 1804
- Babichev, A. I.**  
Rotating motion of a sphere in an elastic medium 8936
- Babichev, Z. V.**  
*See Timofeev, S. V.* 6150
- Babii, V. I.**  
*See Permyakov, B. A.* 564
- Babij, G. B.**  
Forced convection heat-transfer from the heated downstream end of a cylinder placed in front of a similar, axially aligned, unheated cylinder 7415
- Babkin, V. S.**  
Effect of pressure on normal flame velocity investigated by the initial-section method in a constant-volume vessel 3026  
Study of normal burning velocity in methane-air mixtures at high pressures 5704
- Babloyan, A. A.**  
Torsion of the hollow hemisphere by means of a punch 4226  
*See also Alexandrian, M. A.* 11
- Babukha, G. L.**  
Experimental determination of the number of particle collisions in two-phase flow 2074
- Babykin, M. V.**  
Structure of collisionless shock waves and dissipation of strong variable magnetic fields in a plasma 9060
- Baccaglioni, G.**  
Heat transfer to cylinders in nitrogen-helium and nitrogen-neon mixtures 4730  
*See also Libby, P. A.* 2905
- Bach, G. G.**  
Initial propagation of impulsively generated converging cylindrical and spherical shock waves 1206  
An analytical solution for blast waves 9663
- Bach, I.**  
Methods for inverting network matrices by computers, used in the Institute for Electrical Power Industry Research 6774
- Back, L. H.**  
Incompressible laminar boundary layers with large acceleration 1225  
Laminarization of a turbulent boundary layer in nozzle flow 1228  
Flow and heat transfer in laminar boundary layers with swirl 2134  
Flow and heat-transfer measurements in subsonic air flow through a contraction section 2241  
Laminar, transition, and turbulent boundary-layer heat-transfer measurements with wall cooling in turbulent airflow through a tube 4608  
*See also Massier, P. F. Cuffel, R. F.* 6379 7233
- Back, P. A. A.**  
*See Lane, R. G. T.* 8781
- Backhaus, G.**  
On the yield surface in general hardening 135  
Determination of the strain tensor by the measurement of plastic deformation 5134  
The yield point in the case of general deformation 9355
- Backshall, R. G.**  
The boundary-layer velocity distribution in turbulent swirling pipe flow 5545
- Backus, M. M.**  
*See Schneider, W. A.* 6697
- Bacon, J.**  
*See Pfenninger, W.* 6387
- Bacon, M. D.**  
Unsymmetric free vibrations of orthotropic sandwich shells of revolution 5232
- Badiyan, E. E.**  
*See Pines, B. Ya.* 9155
- Baehre, R.**  
Loading of statically determinate and indeterminate beams of elastoplastic material: Theoretical and experimental investigations 1972
- Baer, R. M.**  
Circles in a square world: A problem in pattern analysis 2486
- Baganoff, D.**  
*See Hanson, R. K.* 9662
- Bagchi, D. K.**  
*See Rockey, K. C.* 8590
- Bagchi, M. C.**  
Thermal stresses due to disturbance of uniform flow by a pair of insulated circular holes 9144
- Bagdassryan, G. E.**  
Aeromagneto flutter of a cylindrical shell in a supersonic flow 1454
- Bagdoev, A. G.**  
The motion of a pressure front in nonuniform fluid 2940
- Bagley, J. A.**  
*See Raney, D. J.* 8130

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Bagotskii, V. S.  
See Gurevich, I. G. 1417
- Bagrov, N. N.  
Oil-free pumping of vacuum systems with diaphragm pumps 3802
- Bahar, L. Y.  
The Laplace transform of the derivative of a function with finite jumps 8426
- Bahjat, D. S.  
Model study of radiation from an explosion in a circular disk 1033
- Bahn, G. S.  
On gas-phase chemical kinetics in the burning of particulate boron in dry air 5707
- Bahr, A.  
Anomalous pressure-dependence of the heat transfer in the two-phase region when approaching the critical pressure 6505
- Baibakov, O. V.  
Calculating flow at blade exit in centrifugal and axial pumps 4668
- Baiborodov, Yu. T.  
Plasma containment experiments in the PR-6 device 9074
- Baikov, V. N.  
Investigation of the carrying capacity, crack resistance and deflections of reinforced concrete portal frames taking into account the inelastic properties of the structures 8772
- Bailey, F. C.  
See Henry, J. R. 9997
- Bailey, J. A.  
The plane strain forging of aluminum and an aluminum alloy at low strain rates and elevated temperatures 4376
- Bailie, J. A.  
See Latta, G. E. 6701
- Baines, B. H.  
See Gaisford, R. W. 3393
- Baines, P. G.  
On thermohaline convection with linear gradients 2281
- Baines, W. D.  
Turbulent buoyant convection from a source in a confined region 7419
- Bainum, P. M.  
Motion and stability of a dual-spin satellite with nutation damping 9907
- Baird, C. A., Jr.  
Modified quasilinearization technique for the solution of boundary-value problems for ordinary differential equations 814
- Baird, R. W.  
See Knisel, W. G., Jr. 9637
- Bajpai, S. D.  
Special functions and forced symmetrical vibrations of a circular elastic plate 9252
- Bajwa, G. S.  
Hydromagnetic waves in an ideally conducting medium with a two-dimensional inhomogeneous magnetic field 3934
- Bakakin, A. V.  
Variable-structure systems with lag in switching devices 3320  
Means of determining regions of stability of motion 3321
- Bakalin, Yu. I.  
Application of the phenomenological equations of thermodynamics of irreversible processes to turbulent flows 2196
- Bakan, G. M.  
On a peculiarity of self-sustained oscillations in an optimizing system with artificially formed extremum characteristics 2535
- Baker, A. J.  
See Benenson, D. M. 8269
- Baker, A. L. L.  
Explanatory note on the proposed Unified Code clause on shear in reinforced concrete beams with special reference to the report of the Shear Study Group 4474
- Baker, D.  
See Bayer, R. G. 6723
- Baker, D. J.  
A laboratory model for the general ocean circulation 8360
- Baker, G. L.  
See Moorhouse, D. C. 5291
- Baker, J.  
Plastic design of frames: Vol. 1, Fundamentals 1126
- Baker, L. E.  
See Valentinuzzi, M. E. 10018
- Baker, R.  
Ocean wave profile and spectra measurement using an airborne magnetometer 719
- Baker, R. A.  
Asymptotic stability in the large of a class of single-loop feedback systems 5015
- Baker, R. G.  
See Farrar, J. C. M. 5446
- Baker, W. E.  
Modeling the blast response of structures using dissimilar materials 5346
- Baker, W. H.  
Mohr-Coulomb strength theory for anisotropic soils 7869
- Baker, W. J.  
Stream exiting studies of model amphibious vehicles 1057
- Bakhshiyani, B. Ts.  
See Elyasberg, P. E. 7509
- Baklanovskaya, V. F.  
An axisymmetric problem of unsteady gas filtration in a porous medium 8348
- Bakshi, M. N.  
See Pursell, N. 6478
- Bakshi, S. K.  
A note on pure bending of a piezoelectric rectangular plate 2647
- Radial deformations of two concentric layers of ceramic intervened by a concentric layer of piezoelectric quartz 8328
- Bakulin, E. A.  
A multi-electrode probe for negative potentials relative to a plasma 1444
- Balabukh, L. I.  
On a boundary value problem of the theory of oscillations with parameter-dependent boundary conditions 768  
See also Alfutov, N. A. 6052
- Balaji Rao, L. V.  
See Sen Gupta, D. K. 5613
- Balakhonov, V. Ya.  
Turbulence heating of a plasma in a toroidal current-carrying system 9073
- Balakrishnan, A. V.  
On a new computing technique in optimal control and its application to minimal-time flight profile optimization 5032
- Balasubramaniam, E.  
Stress relaxation of animal fibers 4980
- Balchitis, I. Yu.  
See Baltrunas, I. I. 38
- Balderston, H. L.  
The detection of incipient failure in bearings 9202
- Baldin, V. P.  
See Bezukhov, I. M. 4122
- Baldina, O. M.  
Flow pulsations in the horizontal elements of steam generators 2296
- Baldwin, J. F.  
The use of a method of perturbations in the synthesis of closed-loop optimal control laws for nonlinear systems 7689
- Baldwin, L. V.  
See Haberstroth, R. D. 3007
- Baldwin, N. L.  
Equipment for thermal and differential thermal analysis to 3000°C 9831
- Balescu, R.  
Relativistic statistical thermodynamics 2195
- Balin, V. A.  
A study of the normal speed of flame propagation in dust-laden gas flows 5702  
Calculating the normal speed of flame propagation in gas mixtures 9836
- Balinski, M. L.  
Duality theory of linear programs: A constructive approach with applications 8438
- Balitskiy, S. A.  
Flashing of a superheated liquid under vacuum 2260
- Balje, O. E.  
Axial turbine performance evaluation: Part 1, Loss-geometry relationship; Part 2, Optimization with and without constraints 508
- Balke, H.  
See Sahn, S. 5819

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Balke, R. W.**  
Development of the kinematic focal isolation system for helicopter rotors 222
- Ball, C. J.**  
Model materials for three-dimensional photoelasticity 1950
- Ball, C. L.**  
*See* Heidelberg, L. J. 5614
- Ball, G. W.**  
The application and operation of quadrupole mass spectrometers in vacuum technology 3579
- Ball, L. O. W.**  
An investigation of the effect of suction on hypersonic laminar boundary-layer separation 9687
- Ballard, L. D.**  
Optical FM system for measuring mechanical shock 6221
- Ballio, G.**  
Elastoplastic dynamic behavior of a beam-column model 2654
- Ballmann, J.**  
Investigation of supersonic flow around slender bodies by the method of moving singularities 4634
- Balloffet, A.**  
One-dimensional analysis of floods and tides in open channels 3670
- Baloev, A. A.**  
The question of selecting the stabilizer of optimum form in designing 7331
- Balogh, A.**  
Simplified calculation of the eigenfrequencies of torsional vibration 3438
- Baltov, A.**  
Stress-strain state of a hollow viscoplastic cylinder under the action of a dynamic load and temperature Variational theorems in the dynamic theory of viscoplasticity 8654
- Baltrunas, I. I.**  
Dynamics of a system of extremal control invariant during a perturbation: Part 1, The channels of gain and of the time lag 38
- Baltrushaitis, Yu. D.**  
Possibilities of increasing the work capability of the penetrative mechanism of the PK-250 perforator 375
- Bamford, R. M.**  
*See* Melosh, R. J. 1975
- Bammert, K.**  
Comparison between steam and helium turbines for nuclear power plants 3922
- Ban, S. D.**  
The interaction region in the boundary layer of a shock tube 3748
- Banakh, L. Ya.**  
Determination of the axial plane of location of unbalance of a flexible shaft by using strain gages 7812
- Banas, J. F.**  
On linear systems with a time-varying delay and isoperimetric constraints 3338
- Bandeem, W. R.**  
*See* Raschke, E. 8372
- Bandu, N.**  
*See* Sagner, M. 7229
- Banerjee, A. K.**  
Influence of kinetic friction on the critical velocity of stick-slip motion 7587
- Banerjee, B. B.**  
Transverse impact on beams 7848
- Banerjee, M. B.**  
On the stability of nonhomogeneous shear flows 8115  
Thermal instability of nonhomogeneous fluids 8996
- Banerjee, P. K.**  
*See* Chaulia, P. B. 5349
- Bankoff, S. G.**  
*See* Padmanabhan, L. 67
- Banks, H. T.**  
Variational problems involving functional differential equations 5945
- Banner, M. L.**  
*See* Luxton, R. E. 2140
- Bannister, F. K.**  
*See* Kellow, M. A. 5309
- Bannister, R. L.**  
Evaluation of the input impedance of a reinforced plastic plate 3478
- Bansal, G. D.**  
Effect of layout on daylight availability in multistoreyed buildings in the tropics 9602
- Bansal, J. L.**  
Boundary layer on a flat plate with homogeneous suction 468  
Heat and mass transfer in a laminar boundary layer on a flat plate with variable suction or injection velocity and constant wall temperature 3896
- Bansal, V. S.**  
Volterra-series analysis of a class of nonlinear time-varying systems using multilinear parametric transfer functions 7660  
*See also* Lubbock, J. K. 6785
- Banut, V.**  
*See* Rautu, S. 2802
- Banyukha, V. V.**  
*See* Vidin, Yu. V. 3886
- Bapat, V. A.**  
Response of undamped nonlinear spring mass systems subjected to constant force excitation: Part 2 Approximate methods for step function response of undamped nonlinear spring mass systems with arbitrary hardening type spring characteristics 4285  
Effect of static deflection on natural frequency of nonlinear spring mass system by direct linearization method 4286  
Some studies on dynamic vibration absorbers 4317  
Free vibrations of nonlinear cubic spring mass systems in the presence of Coulomb damping 9428
- Barabanov, V. N.**  
Determination of the impact strength of carbon graphite materials at high temperatures 7939
- Baral, M. C.**  
On the hydromagnetic flow of viscous conducting fluid between two porous co-axial cylinders in the presence of a radial magnetic field 1419  
Unsteady flow of a viscoelastic liquid under Heaviside-type applied magnetic fields 3065
- Baranenkov, V. A.**  
Investigation of the deformation of elastic membranes constrained by restrictions (on displacements) by the method of dynamic programming 9370
- Baranov, V. N.**  
Questions of the dynamics of elastic mechanical systems 4320
- Baranski, W.**  
Elastic symmetry in the linear theory of plane fibrous body 1724
- Barashikov, A. Ya.**  
Creep of concrete under forced cyclic deformations 6256
- Barba, D.**  
Simplified design method for long vertical tube evaporators with a film of liquid 2280
- Barbaritskaya, M. S.**  
*See* Vasilchenko, Yu. A. 7292
- Barbera, F. J.**  
An analytical technique for studying the anomalous roll behavior of reentry vehicles 8301
- Barcilon, V.**  
Axisymmetric inertial oscillations of a rotating ring of fluid Some inertial modifications of the linear viscous theory of steady rotating fluid flows 9639
- Barden, L.**  
Time dependent deformation of normally consolidated clays and peats 5295  
Plane strain deformation of granular material at low and high pressures 7870
- Bardhan-Roy, B. K.**  
*See* Bobrowski, J. 5392
- Bardon, C.**  
Interpreting flow phenomena in clayey media 4055
- Bardos, V.**  
A contribution to the theory of recursive relationships 8808
- Bareiss, E. H.**  
Numerical solution of linear equations with Toeplitz and vector Toeplitz matrices 9258
- Barenblatt, G. I.**  
Kinetics of crack propagation: General considerations, cracks close to the arrested cracks 4398  
A rule for damage accumulation 6205  
Turbulence of anomalous fluids 8912
- Bares, R.**  
Tables pour le calcul des dalles et des parois (Tables for the analysis of plates and deep beams) 918

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Barger, R. L.**  
See Brooks, J. D. 8316
- Barinov, Yu. D.**  
See Savin, L. S. 8012
- Barker, A. J.**  
Corrosion studies of glass fiber surfaces using a scanning electron microscope 4417
- Barker, L. M.**  
See Johnson, J. N. 7854
- Barkham, P. G. D.**  
Approximate solutions of nonlinear non-autonomous second-order differential equations 8415
- Barkhatov, A. N.**  
Moire modeling of the sound field in a wedge 9942
- Barkhudaryan, A. M.**  
The motion of a circular wing near a screen 9707
- Barkov, N. N.**  
See Marshak, Yu. L. 9036
- Barla, G.**  
Stress-relief method in anisotropic rocks by means of gages applied to the end of a borehole 8694
- Barlow, A. J.**  
Ultrasonic and viscoelastic relaxation in bis [m-(m-phenoxy phenoxy) phenyl] ether 1154  
Viscoelastic relaxation in liquid mixtures 2835
- Barlow, J. F.**  
Computer analysis of pipe networks 5454
- Barmby, B. D.**  
Design and construction aspects of the Captain Cook bridge 5409
- Barmin, A. A.**  
Variation of gas velocity in a normal ionizing shock wave and the problem of the conductive piston 4799  
Gas velocity variation in ionizing shock waves: The problem of the conductive piston 7478
- Barmin, D. P.**  
See Konovalov, A. A. 5428
- Barna, P. S.**  
Fluid mechanics for engineers: 3rd edition 393
- Barnea, D. I.**  
A method and new results for stability and instability of autonomous functional differential equations 6788
- Barnes, A. G.**  
A simulator investigation of rolling requirements for landing approach 5594
- Barnes, J. H.**  
The measurement of gas temperature using the gas jet generator 8984
- Barnes, T. G.**  
Radiation pressure from breathing and heartbeat 5890
- Barnett, J. D.**  
Viscosity measurements on liquids to pressures of 60 kbar 8166
- Barnett, S.**  
Insensitivity of control systems 5033
- Barnett, T. L.**  
Application of a nonlinear least-squares method to atmospheric temperature sounding 4947
- Barnhill, R. E.**  
Asymptotic properties of minimum norm and optimal quadratures 6775
- Barnickle, N. J.**  
See Tucker, D. G. 2365
- Barnoski, R. L.**  
Mean-square response of simple mechanical systems to nonstationary random excitation 1008
- Baron, F.**  
Inelastic response for arbitrary histories of loads 7725
- Baron, J. R.**  
See Jischke, M. C. 2099
- Barr, D. I. H.**  
A similitude framework of regime theory 1165
- Barr, G. W.**  
Aeroelastic stability characteristics of cylindrical shells considering imperfections and edge constraint 1451
- Barrar, R. B.**  
Close-in orbits in the restricted problem of three bodies 4840
- Barratt, P. J.**  
Multiple scattering of plane harmonic elastic waves in an infinite solid by an arbitrary configuration of obstacles 6994
- Barrett, C. R.**  
See Nix, W. D. 894
- Barrett, G. V.**  
Feasibility of studying driver reaction to sudden pedestrian emergencies in an automobile simulator 8411
- Barrett, M. G.**  
The new Trevoze Head lifeboat station 3621
- Barrett, R. E.**  
Alkali iron trisulfate formation within deposits in an oil-fired laboratory combustor 1404
- Barrington, D. K.**  
See Miller, W. H. 9051
- Barron, S.**  
Thermocouple cements for nuclear rocket engine nozzles 2205
- Barrow, G.**  
See Ellis, J. 6171
- Barrow, H.**  
A survey of fluid flow and heat transfer in rotating ducts 1337
- Barston, E. M.**  
Stability of the resistive sheet pinch 7483
- Barsukov, O. M.**  
Magnetic observations in the region of the medeo blast work 7879
- Bartalucci, B.**  
Grinding process instability 3468
- Bartel, D.**  
See Abdul-Baki, A. 5405
- Bartel, D. L.**  
Mechanical analysis and optimization of a cup arthroplasty 8395
- Bartenev, G. M.**  
The structure and strength of glass fibers of different chemical composition 1084  
Calculating the time-to-rupture of brittle solids in surface-active media 2751  
The friction of polymers at the initial stage of sliding in various temperature ranges 4090  
Equipment for plotting thermomechanical curves and determining internal friction in inorganic glasses 4536  
Constitution and strength of glass fibers 6184  
Dependence of microhardness of amorphous solids on temperature and loading time 6660
- Bartenev, V. S.**  
Analysis of spherical shallow shells of rectangular planform with regard to yielding diaphragm 7763
- Bartima, F.**  
Boundary conditions for oblique reaction waves in supersonic flow 2101
- Bartlett, R. S.**  
High lift-drag ratio double wedges of given volume which support two-dimensional supersonic flow fields 8065
- Barton, C.**  
Analytical investigation of cilia induced mucous flow 758
- Barton, M. E.**  
Model experiments of soil erosion by VTOL aircraft downwash impingement 1061
- Bartos, J. M.**  
See Gerber, N. 3719
- Bartov, A. V.**  
Absorption of magnetoacoustic waves in a plasma 4798
- Bartz, J. A.**  
See Vidal, R. J. 461
- Baruch, M.**  
Buckling of cylindrical shells with axial surface tractions 1811
- Barulin, Yu. D.**  
See Vikhrev, Yu. V. 2258
- Basak, P.**  
See Anandakrishnan, M. 3506
- Basava Raju, B.**  
Stresses around a circular hole in a shallow conical shell 156  
Bending of swept cantilever thin elastic plates 3400
- Bascom, C. W.**  
Structural design review of long, cylindrical, liquid-filled independent cargo tank-barges 8796
- Bascunana, J. L.**  
Burning rate development in a closed vessel of arbitrary shape and variable volume, for variable but uniform pressure 2288
- Basheev, S. M.**  
Wedging action of a segmental inertia freewheel clutch 7995

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Bashenov, E. K.**  
Calculation of life spring in the case of shock loading 6277
- Bashenova, T. V.**  
Shock waves in real gases 4587
- Bashilov, V. A.**  
Determination of the concentration of electrons behind the front of a shock-wave and in a gas-discharge plasma in a magnetohydrodynamic shock-tube 3933
- Bashkirov, V. I.**  
See Agranat, B. A. 6319  
Agranat, B. A. 9938
- Bashta, T. M.**  
The hydraulic spring 2818
- Basile, G.**  
On the observability of linear, time-invariant systems with unknown inputs 1676
- Basina, I. P.**  
Motion of burning coal particles in swirling flow 9845
- Baskakov, A. P.**  
Investigation of local heat transfer in a spouted bed by means of a temperature probe 1377  
Hydrodynamics of a fluidized bed near a submerged plate 4912
- Basler, K.**  
See Kollbrunner, C. F. 9339
- Basole, M. M.**  
See Das, P. K. 8780
- Basov, N. G.**  
Molecular population inversion in the supersonic flow of a binary gas in a Laval nozzle 5748
- Basov, V. V.**  
See Reznikov, A. N. 1320
- Bass, D.**  
Buckling of twisted bars as an engineering example of Schaefer's theory of two-parametric eigenvalue problems 8588
- Bassa, G.**  
Tests on the radiation from pulverized-fuel flames 550  
Investigation of coal mixtures in experimental combustion equipment 9846
- Bassanini, P.**  
On supercavitating flow past a symmetric wedge 7180
- Bassett, D. L.**  
See Hart, W. E. 3200
- Bassingthwaight, J. B.**  
See Anderson, D. U. 6780
- Bassotti, L.**  
Eigenvalue problem of plane elasticity 5979
- Basta, J.**  
A new method of "unequal areas" for determination of dynamic stability in an energy system 2712
- Bastian, E. L. H.**  
Modern developments in fluids and metal forming operations 4102
- Bastianon, R. A.**  
Unsteady solution of the flowfield over concave bodies 5534
- Bastin, D.**  
Rockwell hardness testing: The effect of tilting the specimen 8746
- Basu, A. K.**  
Derivation of formulas for the design of rectangular composite columns 7965
- Basu, J. P.**  
A new theory for the mechanical wear process 4970
- Basuli, S.**  
Noncircular cylindrical shells 935
- Batchelder, G. M.**  
The nonlinear disparity in converting Knoop to Rockwell C hardness 6241
- Bateman, T. B.**  
See McSkimin, H. J. 1498
- Bathala, P. S.**  
Transient energy transfer in hot and cold layers of radiating gas during expansion 1348
- Bathke, K.**  
Influence of the indicator channel on measuring the gas pressure distribution in cylinders of combustion engines 1414
- Batov, V. V.**  
Economics of the transition of operation of reactors of atomic power plants 9855
- Batt, R. G.**  
Experimental investigation of far wakes behind two-dimensional slender bodies at  $M_\infty = 6$  7238
- Battan, L. J.**  
Measurement of vertical velocities in convective clouds by means of pulsed-Doppler radar 9988
- Battat, D.**  
A nonequilibrium kinetic description of shock-wave structure 8894
- Batten, R. C.**  
See Stanley, E. M. 9975
- Batterman, S. C.**  
Plastic stability of spherical shells 182  
Limit analysis of doubly symmetric closed structures 2787  
See also Bushnell, D. 1810
- Batterton, P. G.**  
Dynamic performance analysis of a fuel-control valve for use in air-breathing engine research 2524
- Baturin, V. A.**  
Balance of energy in stabilized arcs in argon with intense axial gaseous flux 2250
- Bauer, A. B.**  
Potential flow and boundary-layer theory as design tools in aerodynamics 8900
- Bauer, H. F.**  
Nonlinear bending response of a space vehicle on the launching pad due to pulse excitations 1004  
Note on linear hydroelastic sloshing 9736  
See also Woodward, J. H. 9728
- Baum, F.**  
Measuring errors occurring during determination of the dust content in waste gases by adsorption of trioxide on measuring filters 700
- Baum, G.**  
Rheology of dispersions of high-aspect-ratio submicroscopic whiskers 1156
- Bauman, E. J.**  
Two-level optimization techniques for dynamic systems 5958
- Baumanis, A. M.**  
See Krupka, R. M. 5224
- Baumann, R. C.**  
See Madey, J. M. 641
- Baumeister, K. J.**  
See Hendricks, R. C. 8223
- Baumgart, H.**  
Data collecting system for climatological stations 9186
- Baumgartner, J. L.**  
See Jirsa, J. O. 4435
- Baurdoux, H. I.**  
See Zandbergen, P. J. 8064
- Bausch, W. E.**  
See Schlegel, R. G. 7527
- Bauze, V. R. E.**  
Trajectories of a flight around a planet with return to the Earth 4854
- Baxi, C. B.**  
Effect of vibration on heat transfer from spheres 3859
- Bayazit, M.**  
Resistance to reversing flows over movable beds 2840
- Bayer, R. G.**  
Abrasive wear by paper 6723
- Bayer, Z.**  
MHD generator cycle with liquid metal 2328
- Bayley, F. J.**  
The heat transfer performance of porous gas turbine blades 4781  
Flow between a rotating and a stationary disk 8856
- Bayly, M. B.**  
Anisotropy of viscosity in suspensions of parallel flakes 6304
- Bazant, Z. P.**  
Creep stability and buckling strength of concrete columns 2795
- Bazarenko, N. A.**  
Analysis of the three-dimensional states of stress and strain of circular cylindrical shells: Construction of refined applied theories 7766
- Bazarov, S. M.**  
Investigation of droplet size distribution at the outlet from the last stage of a steam turbine 4771
- Bazhenov, V. A.**  
Stressing of closed cylindrical shells considering the deformed state 5160
- Bazhenova, T. V.**  
See Naboko, I. M. 6352
- Bazile, A.**  
Tests with castellated beams 4246

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Bazley, N.**  
Estimation of the bifurcation coefficient for nonlinear eigenvalue problems 3270
- Bazunov, E. P.**  
Some principles of the initial phase of quasibrittle metal destruction 7898
- Bazzhin, A. P.**  
Calculating the flow of a perfect gas near elliptical cones at high angles of attack 430  
Calculation of the flow past plane triangular wings at large angle of attack 6408
- Beamish, J. K.**  
Wind-tunnel diagnostics by holographic interferometry 3826
- Bean, W. C.**  
Minimum  $\Delta V$ , three-impulse transfer onto a trans-Mars asymptotic velocity vector 9118
- Beard, C. S.**  
High pressure drop valves 9616
- Beardsley, R. C.**  
A laboratory model of the wind-driven ocean circulation 4928
- Bearman, P. W.**  
On vortex shedding from a circular cylinder in the critical Reynolds number regime 1184
- Beasley, W. D.**  
*See Brooks, J. D.* 8316
- Beatrice, C.**  
Harmonic vibration testing of a nonlinear aircraft structure 9901
- Beaudrot, C. B.**  
Synthesis of 4-bar linkages adjustable for several approximate straight-line motions of a coupler point 4518
- Beaufait, F. W.**  
*See Muhlbauer, K. C.* 7752
- Beaulieu, R. J.**  
*See Mylonas, C.* 4446
- Beaver, P. R.**  
Heat transfer coefficients and circulation rates for thermosiphon reboilers 7445
- Beavers, G. S.**  
Non-Darcy flow through fibrous porous media 4051  
Shock-wave shapes on hypersonic axisymmetric power-law bodies 5518
- Beck, G.**  
*See Friend, J.* 5423
- Beck, J. V.**  
Determination of optimum, transient experiments for thermal contact conductance 5650
- Becker, E.**  
The formation of plane, cylindrical, and spherically symmetric compression shock waves in relaxing gases 2102  
Second order viscosity approximation for a relaxing gas 9775
- Becker, E. B.**  
*See Hill, J. L.* 3417
- Becker, H.**  
Determining isoclinics from fringe patterns 1947  
Viscoelastic stress-concentration factors 7076
- Becker, M.**  
Measurement techniques with the DVL plasma wind tunnel 7496
- Beckerle, J. C.**  
Spatial correlation of ocean movements and sound-velocity fluctuations 3138
- Beckers, P.**  
Membrane elements for polygonal cylinders reinforced by rings and stiffeners 3584
- Beckmann, R. B.**  
*See Cermak, J. O.* 9826
- Beckwith, I. E.**  
*See Harvey, W. D.* 2128
- Bednar, J.**  
A contribution to the acceleration of stress evaluation, using the method of shear stress differences 5348
- Bednarczyk, H.**  
On some dynamic compatibility conditions for the interaction of normal discontinuity surfaces 3710
- Bednarski, T.**  
Plastic deformation of a thin circular plate by impulsive loading 2650
- Beedle, L. S.**  
Ductility as a basis for steel design 326  
Recent developments in plastic design practice 1115
- Beer, J. M.**  
*See Mellor, R.* 9957
- Beevers, C. J.**  
The effect of prior deformation on the fracture characteristics of zirconium-hydrogen alloys 3539
- Beghi, C.**  
Density measurements after tensile and creep tests on pure and slightly oxidized aluminum 9949
- Bejn, M.**  
*See Zadoff, L. N.* 3938
- Behn, R. D.**  
On a class of linear stochastic differential games 5046
- Behrens, E.**  
Elastic constants of filamentary composites with hexagonal symmetry 4238
- Behrens, W.**  
*See Lewis, J. E.* 2887
- Beightler, C. S.**  
Optimal design by geometric programming 9617
- Beik, L. A.**  
*See Abdal-Baki, A.* 9508
- Beilinova, T. A.**  
Method of evaluating the tendency to brittle failure in steel 6232
- Beitin, K. I.**  
Response of an elastic half space to a decelerating surface point load 5263
- Bekker, M. G.**  
Introduction to terrain-vehicle systems: Part 1, The terrain; Part 2, The vehicle 6152
- Belenkii, I. M.**  
On the final motions of conservative systems 3344  
The motion of conservative systems in harmonic force fields 5971
- Beletskii, D. G.**  
Balancing thin-wall disk-type components 9615
- Beletskii, V. V.**  
On the motion of a pulsating system in a gravitational field 5769  
Relative motion of a link-up of two objects in orbit 8306
- Belford, G. G.**  
An initial-value problem approach to the solution of eigenvalue problems 3281
- Belgaumkar, B. M.**  
Study of damping in aluminum brass and cast iron cantilever beams 1006
- Bell, J. F.**  
The dynamic plasticity of non-symmetrical free-flight collision impact 7855
- Bell, J. M.**  
Noncircular sliding surfaces 1898
- Bell, J. T.**  
A dilatometer method for the precision measurement of the densities of liquids to 400°C and 352 kg/cm<sup>3</sup> 2181
- Bell, K.**  
A refined triangular plate bending finite element 154
- Belle, T. S.**  
Application of an integral representation of the Macdonald function for computation of the Kirchhoff integral in calculating the field of a slightly convex spherical radiator 6624
- Bellevaux, C.**  
Nonlinear free surfaces in open channels 4556
- Bellhouse, B. J.**  
The fluid mechanics of the aortic valve 3248  
Velocity and pressure distributions in the aortic valve 8402
- Bellini, P. X.**  
Forced vibration of cylindrically orthotropic circular plates 8610
- Bellman, R.**  
A note on asymptotic control theory 5010
- Belokon, A. V.**  
*See Aleksandrov, V. M.* 10
- Belov, A. I.**  
*See Kobranov, G. P.* 632
- Belov, I. A.**  
Effect of turbulence on heat transfer in a supersonic jet with plane obstacle 7428
- Belova, G. N.**  
Ultrasonic modulation of a laser 4890

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Belozarov, A. N.**  
The initial ionization of hydrogen in a strong shock wave 3708
- Beltrami, E. J.**  
An algorithmic approach to non-linear analysis and optimization 8475
- Belubekian, M. V.**  
On the problem of the aerodynamic trail behind the plate 5549
- Belubekyan, M. V.**  
See Bagdassryan, G. E. 1454
- Belyaev, A. F.**  
Breakdown of surface burning of gas-permeable porous systems 5706
- Belyaev, V. B.**  
See Akhmatkhodzhaev, B. 9318
- Belyaev, V. S.**  
The dependence of the spectra of the velocity components of a wind-driven current on the spectrum of the tangential wind force 722
- Belyaev, Yu. A.**  
Methods for dynamic testing of certain materials at high loading rates and low temperatures 9952
- Belyaev, Yu. N.**  
Kinetic properties of air and other gases at high temperatures 8179
- Belyi, V. A.**  
See Krasovskii, A. M. 7590
- Belyunas, K.**  
See Iodelis, B. 311
- Ben-Amoz, M.**  
The effective wave velocities of heterogeneous materials 4330  
The effective thermal properties of two phase solids 9781
- Bendavid, D.**  
Systematic computation of lumped weight and inertia representations of arbitrary structures 7102
- Bender, E.**  
Equation of state for dissociated air with entropy, enthalpy and pressure as variables 8176
- Bendixsen, C. L.**  
Experience with nonmechanical solids flow control device in the waste calcining facility 3174
- Bendura, R. J.**  
See Whitlock, C. H. 3982
- Benedek, Z.**  
An investigation of the scale effect on self-propulsion factors 1562
- Benedetti, R. L.**  
Simple fatigue machine for wires and foils 9560
- Benedict, R. P.**  
Handbook of generalized gas dynamics 3692  
Handbook of specific losses in flow systems 3693  
Analysis of experimental data 4150
- Benenson, D. M.**  
Stability and shape of magnetically balanced cross-flow arcs 8269
- Bengtson, R. D.**  
Comparison of measured and predicted conditions behind a reflected shock 9664
- Benham, P. P.**  
See Crosby, J. R. 4404
- Benham, R. D.**  
SIMPL-1 - A simple approach to simulation 5919
- Benison, G. I.**  
A time-dependent analysis for quasi-one-dimensional, viscous, heat conducting compressible Laval nozzle flows 7254
- Benjamin, J. R.**  
A probabilistic basis for a deterministic code 4480
- Benjumea, R.**  
A note on the penetration of a rigid wedge into a nonisotropic brittle material 4371
- Ben-Menahem, A.**  
See Singh, S. J. 4333  
Singh, S. J. 6693
- Bennett, A.**  
A new method for constructing periodic orbits in nonlinear dynamical system 1458
- Bennett, B. A.**  
Accurate hydraulic metering of solids in dense phase flow 6671
- Bennett, E. W.**  
High early strength concrete by means of very fine Portland cement 7123
- Bennett, J. P.**  
See Plate, E. J. 8918
- Bennett, L.**  
Blood flow: Velocity profile continuity near a wall 9211
- Bennett, R. L.**  
See Kerrick, J. S. 1598
- Benoy, M. B.**  
An energy solution to the buckling of rectangular plates under non-uniform in-plane loading 6059  
The determination of solar heating 9183
- Benson, R. S.**  
An experimental and analytical investigation of the gas exchange process in a multicylinder pressure-charged two-stroke engine 5728
- Bent, R. B.**  
Determination of the attitude of the Ariel III satellite 9114
- Bentall, R. H.**  
See Johnson, K. L. 7889
- Bentwich, M.**  
Incompressible viscous flows resulting from the steady rotation of a finite disk 2063
- Benyon, P. R.**  
A review of numerical methods for digital simulation 1638
- Ben-Yosef, N.**  
Experimental investigation of the normal modes in a warm cylindrical plasma 6548
- Bera, R.**  
Note on the stability of a long tube with cylindrical orthotropy 966
- Beranek, W. J.**  
Rapid interpretation of moire photographs 6215
- Berbente, C.**  
See Ruckenstein, E. 3019  
Carafoli, E. 6405
- Berbente, C. P.**  
Hydrodynamics of wave flow 415
- Berdichevski, V. L.**  
Dynamic theory of continuously distributed dislocations: Its relation to plasticity theory 5133
- Beresnev, N. P.**  
Control system of the automatic station "Luna-9" 58
- Berezinskii, R. A.**  
See Geishtovt, M. A. 546
- Berezhnoi, V. N.**  
On a criterion of stability of solutions of an n-th order linear differential equation 7621
- Berezin, I. P.**  
See Epshtein, I. M. 1594
- Berezin, V. M.**  
See Dyubyuk (Dubuque), A. F. 8370
- Berg, C. A.**  
The physical meaning of astatic equilibrium in Saint-Venant's principle for linear elasticity 2562
- Berg, V. A.**  
Use of the finite difference method to formulate the three-dimensional temperature field in a finite body in a flow of water or air (boundary conditions of the third kind, two- and three-dimensional problems, isotropic body, anisotropic medium) 5651
- Berger, A. J.**  
An introduction to the stability of distributed systems via a Lyapunov functional 5933
- Berger, B. S.**  
Vibration of the hollow sphere in an acoustic medium 1848  
Dynamic response of an infinite cylindrical shell in an acoustic medium 1849
- Berger, E. L.**  
See Santora, F. A. 9117
- Berger, J.**  
A laser Earth strain meter 8357
- Berger, J. A.**  
See Ludwigson, D. C. 1740
- Berger, M. S.**  
On the asymptotic solution of a non-linear Dirichlet problem 6755  
Von Karman's equations and the buckling of a thin elastic plate: Part 2, Plate with general edge conditions 6925
- Berger, S. A.**  
See Myall, J. O. 1246  
Panton, R. L. 4764
- Bergeron, H. P.**  
See Hurt, G. J., Jr. 7510

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Bergfelder, J.  
Analysis of plates of variable stiffness by the finite difference method 6892
- Berghuis, J.  
See Kooy, J. M. J. 9903
- Bergkvist, H.  
See Andersson, H. 7900
- Bergles, A. E.  
Subcooled boiling pressure drop with water at low pressure 1360  
See also Newell, P. H., Jr. 7416  
Lopina, R. F. 8993
- Bergman, R. M.  
Asymptotic analysis of some plane problems of the theory of elasticity with couple stresses 3355
- Bergman, S.  
Application of the kernel function for the computation of flows of compressible fluids 2086
- Bergseth, F. R.  
See Aggarwal, R. P. 1685
- Berke, L.  
See Salmon, M. 7957
- Berkengeim, A. A.  
Investigation of natural convection in cylindrical liquid layers 7424
- Berkof, R. S.  
A new method for completely force balancing simple linkages 4517  
See also Lowen, G. G. 1137
- Berkovich, E. M.  
See Budak, B. M. 8480
- Berkowitz, H. M.  
See Peck, J. C. 6120
- Berkun, V. A.  
Solution of an axisymmetric problem of unsteady filtration in an infinite stratum 8346
- Berman, A. S.  
Free molecule flow through a long rotating tube 8086
- Berman, I.  
See Patel, P. D. 1771
- Berman, N. S.  
Flow behavior of a dilute polymer solution in circular tubes at low Reynolds numbers 2832
- Bernache, P. L.  
Flow of dry bulk solids on bin walls 1523
- Bernander, K.-G.  
Early flexural cracks in compressive zone of prestressed concrete beams 2798
- Bernard, M. L.  
Study of solid-fuel ablation by liquid and physically homogeneous nitric acid 9043
- Bernicker, R. P.  
A linearized two-dimensional theory for high-speed hydrofoils near the free surface 6720
- Bernstein, B.  
Small shearing oscillations superposed on large steady shear of the BKZ fluid 2038  
See also Fosdick, R. L. 2039  
Goldberg, W. 5096
- Bernstein, M. J.  
Millimeter and nanosecond resolution of fast neutrons from an intense plasma discharge 4833  
Space, time, and energy distributions of neutrons and X-rays from a focused plasma discharge 4835
- Bernstein, T. N.  
See Purdy, D. M. 944
- Bernstein, W.  
See Schilg, G. 5726
- Berrier, B. L.  
Effect of jet velocity and axial location of nozzle exit on the performance of a twin-jet afterbody model at Mach numbers up to 2.2 1253  
See also Mercer, C. E. 6361
- Berry, E. X.  
Convective motion as indicated by visual tracers 4075
- Berry, H. C.  
See Dwyer, O. E. 9809
- Berry, M. R., Jr.  
Transient behavior of infiltrated composites during melt layer formation 9948
- Berry, P. L.  
The radial consolidation of clay soils 7011
- Bers, L.  
Calculus 6750
- Bershader, D.  
Report on the Seventh International Shock Tube Symposium 4691
- Bershchanskii, Ya. M.  
Optimal distribution of resources among tasks of a complex project 6801
- Bershtein, P. Ya.  
The propagation of Love waves in an inhomogeneous anisotropic medium 6698  
See Kogan, B. I. 7814
- Bert, C. W.  
Vibrations of orthotropic sandwich conical shells with free edges 8614  
Dynamics of composite, sandwich, and stiffened shell-type structures 9450  
See also Bacon, M. D. 5232  
Ray, J. D. 6943  
Siu, C. C. 9449
- Bertheas, J.  
See Tournois, P. 7539
- Bertholf, L. D.  
Axisymmetric elastic-plastic wave propagation in 6061-T6 aluminum bars of finite length 3483
- Bertin, J. J.  
Surface recession of phenolic nylon in low-density arc-heated air 9028
- Bertinov, A. I.  
The design of linear energy converters operating on weakly ionized gases and utilizing perpendicular magnetic fields 3967  
See also Alievskii, B. L. 5753
- Bertodo, R.  
Medium speed diesel engine noise 4871
- Bertolini, E.  
Experimental analysis of an MPD closed-cycle generator with quasi-equilibrium plasma 3092
- Bertoni, G.  
See Avanzolini, G. 5210
- Berwanger, C.  
The evaluation of a strain gage having long-time stability characteristics 3568
- Berzon, I. S.  
Phase velocity dispersion of longitudinal seismic waves in thinly layered media 711  
Reflected and refracted converted waves in a weak-gradient medium with a thin layer 4921
- Bes, T. M.  
Energy storage capacity of a periodically heated and cooled solid body 3890
- Besant, R. W.  
See Manian, V. S. 8049  
Manian, V. S. 9692
- Besch, P. K.  
See Cieslowski, D. S. 5758
- Besprozvannaya, I. M.  
Analysis of a beam on an elastic foundation by using the integral matrix method 913
- Besseling, J. F.  
Thermoelastic effects in rubber 2389
- Bessonov, A. P.  
Nonstationary processes in a vibrating system during a change of mass according to a nonlinear law 5212
- Bethune, B.  
Adhesion of metal surfaces under fretting conditions: Part I, Like metals in contact 1568
- Betten, J.  
See Troost, A. 5105
- Bettis, D. G.  
See Stiefel, E. 2477
- Beveridge, J. L.  
Analytical prediction of thrust deduction to submersibles and surface ships 5863
- Beyer, J. B.  
See Burns, S. G. 7497
- Beyer, R. T.  
See Smith, C. W. 6646
- Bezhanov, K. A.  
Diffraction of a shock wave on a wedge moving at supersonic speed 8073
- Bezuglyi, P. A.  
See Fil, V. D. 3143
- Bezukhov, I. M.  
Method for calculating the stability of extramedullary plates 4122
- Bhadra, T. C.  
On the feasibility of inducing cavitation in hailstones and supercooled water by low intensity shock wave 727
- Bhaduri, D.  
Mechanism of turbulent combustion 1396
- Bhagawan, G. K.  
See Hussaini, S. A. 7056

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Bhandari, R. C.  
See Chaudhary, D. R. 1314
- Bhargava, R. D.  
Stresses in an elastic cone due to an axial force at a point on the axis 844  
Stresses in an infinite elastic cylinder due to a point force along the axis 2563  
Rectangular inclusion in a circular region 2572  
Circular hole under discontinuous tangential stresses 5071
- Bhat, G. N.  
See Srimathi, C. R. 3168
- Bhatia, J. C.  
Laminar compressible (subsonic) boundary layer flow on a cylinder with symmetric cross section bounded by two equal circular arcs 460
- Bhatia, V. K.  
See Narayanan, S. 5834
- Bhatnagar, K. S.  
Secondary flow of an elastico-viscous fluid between two coaxial cones oscillating about a fixed axis 3665  
See also Rajagopalan, R. 8207
- Bhatnagar, M. L.  
See Joshi, D. 6224
- Bhatnagar, N. S.  
Stress analysis of pin-jointed frameworks under creep 874  
Analysis of thick-walled orthotropic cylinder in a theory of creep 6855  
See also Agrawal, S. K. 3409
- Bhatnagar, P. L.  
Secondary flows in non-Newtonian fluids 1151  
Spherical piston problem in water 5517  
See also Sachdev, P. L. 8832
- Bhattacharya, A. P.  
Stress distribution around a circular hole in a curved beam under pure bending: An approximate analytical solution 5069
- Bhattacharya, A. R.  
Function-theoretical solution of a class of dual integral equations having application in supersonic flow past a body 5504
- Bhattacharya, R. N.  
Wave in deep water due to the arbitrary motion of a pressure-area along any curved path on the undisturbed free-surface 2169  
Ship waves and wave resistance 4962
- Bhattacharyya, A.  
The cutting characteristics of oscillating cutting tool 6172  
Development of new cutting tool materials 7052  
Analysis of tool wear: Part 1, Theoretical models of flank wear 7895  
See also Basu, J. P. 4970
- Bhattacharyya, P.  
Note on the rotatory motion set up in a semi-infinite viscous fluid by a certain impulsive velocity prescribed over a circular area on the surface 425  
Note on the flow of two incompressible immiscible viscous fluids due to the pulses of tangential force on the upper surface 1182  
Slow steady flow of a viscous incompressible fluid between two walls at slightly variable distance from each other 4566  
Note on the rotatory motion of a semi-infinite viscous fluid due to a transient shearing force applied within a circular area on the surface 8051
- Bhaumik, H.  
Estimates of the transient response of Lure-type systems 8463
- Bhutani, O. P.  
A general theory of thin airfoils in nonequilibrium magnetogasdynamics: Part 1, Aligned magnetic field 3963
- Biazee, J.  
Calculation method for a foundation on elastic multilayer or for roads 4351
- Biasi, L.  
A nonequilibrium description of two-phase annular flow: Application to the burnout prediction 3002
- Biberman, L. M.  
Theory of heating in hypersonic flow 5512
- Bicher, H. I.  
See Nuriel, E. H. 5889
- Bickford, J. H.  
How to make the most—or the least—out of impact 370
- Bickle, L. W.  
The response of strain gages to longitudinally sweeping strain pulses 9545
- Bicknell, R. E.  
See Hyland, R. N. 2358
- Biderman, V. L.  
Application of the method of boundary conditions transfer to the numerical analysis of problems of structural mechanics 324
- Bidnurkar, M. G.  
An energy regulation monitor for electro-encephalography 6746
- Bielak, J.  
Base moment for a class of linear systems 3622
- Bieniasz, Z. T.  
Failure of fractured rock 265  
Fracture dynamics of rock 4370
- Biggs, W. D.  
See Tomkins, B. 5336
- Bigret, R.  
A method for the theoretical investigation of rotor vibrations 3466  
Electro-hydraulic controls for turbines 3915
- Bikchantaev, M. Kh.  
Optimization of a profile in a supersonic linearized flow 9704
- Bilby, B. A.  
Geometry and continuum mechanics 95
- Bilinski, T.  
The influence of the Poisson's ratio upon the  $M_x/M_y$  proportion in rectangular simply supported plates 6829
- Bill, I. M.  
Reference stress for redistribution time in creep of structures 875
- Billar, J. R.  
See Strehlow, R. A. 9035
- Billig, L. O.  
Adaptive controls: Part 1, A survey 9310
- Billington, D. P.  
See Mark, R. 5347
- Billinton, R.  
Techniques in power system transient stability analysis using digital computers 44
- Binder, A. B.  
Internal structure of Mars 3195
- Bingulac, S. P.  
Computer algorithm for determination of loci of performance indices of dynamic systems 6806  
Simulation of high order sensitivity functions for discontinuous dynamic systems 7659
- Binnie, A. M.  
Van Rossum's investigation into the viscous lifting of liquids 1178  
A comparison of ship-model tests in a slotted-wall channel and in a towing tank 8379
- Binsley, R. L.  
See Balje, O. E. 508
- Birchak, J. R.  
See Smith, G. W. 4314
- Bird, G. A.  
The structure of rarefied gas flows past simple aerodynamic shapes 4604
- Bird, J. O.  
See Gottenberg, W. G. 3365
- Bird, R. B.  
Analysis of steady state shearing and stress relaxation in the Maxwell orthogonal rheometer 392
- Birgera, I. A.  
Prochnost ustoiichivost kolebaniya: Tom 1, 2, and 3 (Strength, stability, and vibrations: Vol. 1, 2, and 3) 80
- Birikh, R. V.  
Hydrodynamic and thermal instability of a steady convective flow 1334
- Birkebak, R. C.  
See Singh, S. N. 2987
- Birkemoe, P. C.  
Fatigue of A514 steel in bolted connections 6203
- Birks, A. W.  
A strain gage load cell for the measurement of compressive loads under conditions of high hydrostatic pressure 8738
- Birmingham, B. W.  
See Kropschot, R. H. 528
- Birnstiel, C.  
See Alvarez, R. J. 6257
- Biron, A.  
See Dubuc, J. 8717

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Birta, L. G.**  
A comparative study of four implementations of a dynamic optimization scheme 5040
- Bishara, A.**  
Reinforced concrete rectangular columns in torsion 1989
- Bishop, A. R.**  
Effect of electrothermal instabilities on Brayton- and Rankine-cycle magnetohydrodynamic space-power generation systems 3110
- Bishop, A. W.**  
Drained tension tests on London clay 1891
- Bishop, D. E.**  
See Pearsons, K. S. 1484
- Bishop, E. H.**  
See Powe, R. E. 8997
- Bishop, E. T.**  
See Holden, G. 1733
- Bishop, G. W.**  
Influence coefficient matrix quick-check procedure 979
- Bishop, R. E. D.**  
Linear analysis of transient vibration 187  
Choice of origin for body axes attached to a rigid vehicle 6815
- Biskamp, D.**  
On the asymptotic stability of monotonic electrostatic collisionless shock waves 8278
- Bissada, A.**  
See Sargious, M. 7970
- Bissell, J. R.**  
See Fricke, W. 6625
- Bissell, R. B.**  
See Armentrout, C. L. 9631
- Bisshopp, K. E.**  
Finite rotations of a rigid body and the airplane landing-gear problem 2339  
Construction of helical arcs on an elliptic cylinder tangent to two skew lines 2456  
Note on spherical motion 5966  
See also Sandor, G. N. 8797
- Biswas, S.**  
Note on plane-strain thermoelastic stress in a semi-infinite solid with a constant heat flux into the solid through an infinite strip on the free surface 2390
- Biswas, S. K.**  
Note on the torsional vibration of a thin beam of varying cross-section 5219
- Bito, J. F.**  
The functional parameters of oxide cathodes of arc discharges and their correlations 8281
- Bittel, K.**  
Combination of the liquid spring with a correcting spring 6281
- Biturin, V. A.**  
Some electrodynamic effects in the circuit of a magnetohydrodynamic generator 9887
- Blaauwendraad, J.**  
Programming-method for electronic computation of three-dimensional trellis- or frame-structures, with special application to a high wall The finite element method: Basic principles and formulation 7108
- Black, H. F.**  
Effects of hydraulic forces in annular pressure seals on the vibrations of centrifugal pump rotors 3465
- Black, J. L.**  
Scattering and radiation of water waves 7339  
See also Mei, C. C. 9737
- Black, M. M.**  
Torsion-bending analysis of continuous thin-walled beams 6023
- Blackketter, D. O.**  
Contact stress between two-dimensional finite elastic bodies 5994
- Blackmon, C. M.**  
See Simites, G. J. 5199
- Blackshear, W. T.**  
See Gapcynski, J. P. 6608
- Blackwelder, R. F.**  
See Kovasnay, L. S. G. 9695
- Blair, G. W. S.**  
The basic equation for the coagulation of milk and blood compared with the Maxwell (relaxation) and Kelvin (retardation) equations 7607
- Blair, J. M.**  
The elastic deformation of a circular rod of finite length for an axially symmetric end face loading 6831
- Blake, J. A.**  
Non-equilibrium effects in recombination-dissociation reactions of halogens from shock wave and flash photolysis data 5531
- Blanch, G.**  
Mathieu's equation for complex parameters: Tables of characteristic values 3300
- Blanchard, J.**  
See Ivison, J. M. 3570
- Blanchard, R. C.**  
See Lancaster, E. R. 627
- Bland, D. R.**  
Nonlinear dynamic elasticity 8642
- Blavier, P.**  
See Kermabon, A. 3196
- Bleistein, N.**  
Diffraction in the asymptotic solution of a dispersive hyperbolic equation 1619
- Blejwas, T. E.**  
Photothermoelastic investigation of stresses in a composite model 1948
- Bleustein, J. L.**  
A dynamical theory of torsion 9477
- Blick, E. F.**  
See Parker, J. D. 4555
- Blight, G. E.**  
Foundation failures of four rockfill slopes 1893
- Blinco, P. H.**  
See Apmann, R. P. 2839
- Bliven, D. O.**  
On frequencies of elastic beams with random imperfections 2680
- Bloch, S.**  
Velocities in the crust and upper mantle of southern Africa from multi-mode surface wave dispersion 3188
- Blokhin, A. V.**  
See Elagin, V. A. 799
- Bloom, C. O.**  
On the validity of the geometrical theory of diffraction by convex cylinders 4882
- Bloor, M. I. G.**  
Effect of viscosity on long waves in shallow water 9727
- Blosfeld, B. A.**  
See Kulbakh, A. A. 7090
- Blottner, F. G.**  
Electron number density distribution in the laminar air boundary layer on sharp cones 469  
Viscous shock layer at the stagnation point with nonequilibrium air chemistry 4597  
Finite difference methods of solution of the boundary-layer equations 9679
- Blue, J. E.**  
See Muir, T. G. 3136
- Blue, J. L.**  
Noise calculations in continuous-parameter systems 6981
- Blum, A. M.**  
A general purpose digital traffic simulator 7651
- Bluman, G. W.**  
The general similarity solution of the heat equation 7406
- Blume, J. A.**  
The motion and damping of buildings relative to seismic response spectra 9604
- Blumenauer, H.**  
Practical criteria of brittle fracture safety 9524
- Blythe, P. A.**  
On the structure of a class of aerothermodynamic shocks 435  
Nonlinear wave propagation in a relaxing gas 1258
- Blyumina, L. Kh.**  
Loss of aerodynamic damping during rotational oscillations of isolated structural elements 9096
- Bobbitt, P. J.**  
See Lee, J. S. 9776
- Bobisud, L. E.**  
Parabolic equations with a small parameter and discontinuous data 3275
- Bobolev, V. K.**  
Stability of normal burning of porous systems at constant pressure 5719

- Bobrovnikov, G. N.**  
Volumetric meter error due to changes in the viscosity of the measured liquid 3820  
Friction in fluid-filled anti-friction bearings 4974
- Bobrowski, J.**  
A method of calculating the ultimate strength of reinforced and prestressed concrete beams in combined flexure and shear 5392
- Bode, W.**  
The influence of sulphur in the fuel on the composition of the exhaust gases of diesel engines 3035
- Bodenstein, F.**  
See Tochtermann, W. 6275  
Tochtermann, W. 7988
- Bodin, H. A. B.**  
Study of the diffusion of high- $\beta$  plasma in a theta pinch 3953  
Factors determining beta in a theta-pinch experiment 4816
- Bodner, S. R.**  
See Rosen, A. 884
- Bodrashova, G. F.**  
See Prokofev, V. N. 6449
- Bodunov, M. N.**  
See Lokai, V. I. 8150
- Bodyakov, G. I.**  
Small parameter method for determining motion of a viscous incompressible fluid in a thrust bearing 8389
- Boehler, J.-P.**  
On the invariant formulation of the criterion of Coulomb for anisotropic media 260  
Stress field in a plastic anisotropic medium in plane flow 888
- Bogatenin, V. N.**  
See Zoteev, V. S. 1908
- Bogdan, R. C.**  
Complex harmonic analysis of structural binary groups of aspects IV and V for the construction of mechanisms 1691  
Analiza armonica complexa si mecano-electrica a mecanismelor plane (Complex harmonic and electro-mechanical analysis of plane mechanisms) 8803  
The method of the complex harmonic analysis for the examination of five-bar mechanisms of kind 2 and 4 9614
- Bogdanoff, J. L.**  
See Schiff, A. 714  
Zeman, J. L. 7840
- Bogdanor, J. L.**  
See Willett, J. E. 5742
- Bogdanov, V. I.**  
See Fokin, A. V. 812
- Bogdanov, Yu. V.**  
Hydraulic properties of electromagnetic pump ducts: Part I 3929
- Bogdanova, N.**  
See Baltov, A. 5817
- Bogelsack, G.**  
Design of profiles for high accuracy ball bearings and ball screws 1135
- Boggs, J. H.**  
See Parker, J. D. 4555
- Bogomolov, E. N.**  
Effect of admitting blade cooling air into the blading on the efficiency of a gas turbine 2175  
Applied theory of the Laval turbine 9742
- Bogomolov, S. I.**  
Dynamics of turbine rotors 9445
- Bogomolova, N. N.**  
See Altshuler, B. A. 7128
- Bogorodskii, V. V.**  
Under-ice noise in the ocean 4870
- Bogoslavskii, K. E.**  
Unsteady flow around models in an electromagnetic shock tube 1300
- Bogunovic, V.**  
A note on analysis of grillages simply supported on all four edges 1753
- Boguslavskii, Yu. Ya.**  
Acoustic streaming in a cavitation zone 3129
- Bogusz, W.**  
Technical stability of nonlinear system 981
- Bogy, D. B.**  
Edge-bonded dissimilar orthogonal elastic wedges under normal and shear loading 83  
Elastic-plastic plane-strain solution with separable stress fields 2597
- Bohan, J. P.**  
Mechanics of flow from stratified reservoirs in the interest of water quality 717
- Bohl, E.**  
Iteration method with error estimation for linear operator equations 1637
- Bohnenkamp, K.**  
Stress corrosion cracking of mild steels in a concentrated caustic soda solution 2762
- Bohon, H. L.**  
Flutter design of stiffened-skin panels for hypersonic aircraft 2332
- Bohus, M.**  
Analysis of passive adaptive systems containing conditional feedback 9308
- Boiko, L. D.**  
Hydraulic resistance with condensation of pure steam and steam from a steam-gas mixture in a horizontal tube 4539
- Boikov, N. A.**  
Some results from an investigation of processes of hot-particle ignition in acetylene-air mixtures 9834
- Boissier, A.**  
Experimental study on evaporator unit tube bundles 9827
- Boitsova, E. A.**  
See Rzhennikov, Yu. V. 4662
- Bojanowski, W.**  
On the methods of three-dimensional stress testing of soils 5300  
See also Drescher, A. 241
- Bokay, B.**  
See Bach, I. 6774
- Bokor, A.**  
General method for the evaluation of natural frequencies of transverse beam vibration according to the Timoshenko theory 1829  
Variation of initial strains with impact velocity for central transverse impacts on free-free beams 4293
- Bokros, J. C.**  
Radiation-induced dimensional changes and creep in carbonaceous materials 1729
- Boksha, S. S.**  
Device for thermal compression of liquids 3849
- Boldareva, O. A.**  
The edge effect 6635
- Bolef, D. I.**  
See Miller, J. G. 5803
- Boles, W. D.**  
Bistatic measurements of acoustic waves scattered from a statistically rough known surface 668
- Boley, B. A.**  
The starting solution for two-dimensional heat conduction problems with change of phase 1354  
A general starting solution for melting and solidifying slabs 3162  
On thermal stresses and deflections in thin rings 4892  
Thermal stresses in composite beams 4904  
Uniqueness in a melting slab with space- and time-dependent heating 8216
- Bolie, V. W.**  
Leading US artificial-heart research programmes 4120
- Bollani, G.**  
Trends and results in thermoinelasticity 6658
- Bolotin, V. V.**  
On the equations in the theory of stability of thin elastic shells 2661  
Correlation theory of precritical deformations of thin elastic shells 4280  
Effects of damping on stability of elastic systems subjected to non-conservative forces 5241
- Bolozneva, L. Ya.**  
See Miklyaev, P. G. 7928
- Bolshutkin, D. N.**  
Device for cavitation testing of materials in liquid oxygen 4910
- Bolton, A.**  
The natural frequencies of continuous beams 1828
- Boltyanskii, V. G.**  
An example of a second-order nonlinear system 1654
- Bom, N.**  
Zero-crossing shift as a detection method 9466
- Bonato, L.**  
On the development of an electrolytic probe for velocity measurements in liquids 8963

- Bond, D.  
A computer program for studying the design of reinforced concrete structures supported on columns 2796
- Bond, M. P.  
See Kitching, R. 8789
- Bond, R. A. B.  
Landing gear performance and glide path angles 7501
- Bondarenko, A. V.  
Measurement of shock-wave velocity established after interaction with obstacles in the form of channel-diaphragms 6355
- Bondareva, V. F.  
A contact problem in conditions of special type plasticity 7724
- Boness, R. J.  
Cage and roller slip in high-speed roller bearings 2441
- Bonfield, W.  
The temperature dependence of the deformation of bone 3240
- Bonham-Carter, G.  
Simulation of geologic systems: An overview 35
- Bonilla, C. F.  
See Lee, C. S. 8978
- Bonneau, E.  
Determination of the vibration characteristics of a structure from the expression of the complex power supplied 6096
- Bonner, W. D.  
Kinematics of the low-level jet 7579
- Bonvalet, Ch.  
See Absi, E. 351
- Boocock, D.  
Vibration of a symmetric tuning-fork 1851
- Booker, R. E.  
Velocity dispersion of isotropic rods of square cross section vibrating in the lowest-order longitudinal mode 199
- Boone, P.  
Laser produced moire gratings 6220
- Booth, F. L.  
See Morgan, J. P. 1519
- Boothroyd, R. G.  
Similarity in gas-borne flowing particulate suspensions 2397
- Borghesani, R.  
Relation between pressure and temperature in the phase equilibrium of a substance 6460
- Borisenko, V. A.  
See Pisarenko, G. S. 695
- Borishanskiy, V. M.  
Heat transfer to liquid metals flowing through an annular duct 7426
- Borisov, B. Ya.  
See Eshchenko, G. D. 4384
- Borisov, V. M.  
On a system of bodies with minimal wave drag 1252
- Borisov, Yu. Ya.  
Critical sound pressure for heat- and mass-transfer processes stimulated by acoustic oscillations 649
- Borisyuk, A. I.  
Temperature field in a shell of variable thickness 6484
- Borkauskas, A. E.  
Calculation of plates in the elastic-plastic state using linear programming 8559
- Born, G. H.  
Application of Brouwer's artificial-satellite theory to computation of the state transition matrix 9905
- Borodulin, A. M.  
Equilibrium of a two-layer elastic half-space in the case of the action of tangential forces uniformly distributed over the area of a rectangle 3352
- Boronina, L. V.  
See Tarasova, N. V. 6503
- Boross, L.  
Some problems of the flow of dust-gas mixtures 6668
- Borovik, E. S.  
A dense supersonic hydrogen jet in high vacuum 4600
- Borovoi, V. Ya.  
Selection of the optimum radius of bluntness of an axisymmetric body with the consideration of the radiating surface 2242
- Borovskii, B. I.  
See Ershov, N. S. 1308
- Borshchenko, N. K.  
See Prusakov, A. P. 9397
- Borshchevskii, Yu. T.  
The resonance phenomenon by displacement of sediment 8339
- Bortnikov, A. V.  
Wave structure in a plasma produced by injection of fast ions 9864
- Borun, F. L.  
The profiling of groove cams 4505
- Borzunov, V. A.  
See Atanov, Yu. A. 4683
- Bosco, C. D.  
See Barnett, J. D. 8166
- Bose, S. C.  
Stresses due to a nucleus of thermo-elastic strain in a composite ring 9151
- Boshkov, S.  
See Agarwal, R. 299
- Boshkov, S. H.  
See Agarwal, R. K. 8689  
See Agarwal, R. K. 8690
- Bossel, H. H.  
Vortex breakdown flowfield  
Computation of axisymmetric contractions 414  
7184
- Bosshard, R.  
See Amsel, G. 9468
- Bosshard, W.  
A new, fully compatible finite element for plate bending 3398
- Boswell, R. P.  
See Houghton, E. L. 8054
- Bothmann, Th.  
See Krause, E. 2903
- Botsco, R. J.  
Nondestructive testing of plastic with microwaves 8749
- Botsford, J. H.  
Prevalence of impaired hearing and sound levels at work 1600
- Bottema, O.  
Profile contact mechanism with two pairs of contact curves 3643
- Bottiger, A.  
On the describing function and its inversion 1650
- Botts, T. R.  
See Barker, A. J. 4417
- Bouche, M.  
Physical and mechanical properties of fine compacted soils 242
- Boulay, J. -L.  
Heat transfer in liquid nitrogen in a zero-gravity field 1365
- Boulos, M. I.  
Simultaneous heat and mass transfer from a single sphere to a turbulent air stream 568
- Bourcier, M.  
Numerical integration of the Navier-Stokes equations in a square domain 7203
- Bourne, J. R.  
An analysis of the flow produced by helical ribbon impellers 6446  
See also Coggan, G. C. 5697
- Bourodimos, E. L.  
Gravity wave shoaling and transformation in shallow water 4647
- Bourot, J. -M.  
On the application of the method of least squares to the approximate solution of boundary-value problems for certain flow categories 2855
- Bourquin, J. J.  
Stability of a class of lumped-distributed systems 2504
- Bouwkamp, J. G.  
See Scordelis, A. C. 5155
- Bovet, T.  
Contribution to the concept of the cavitation number of a hydraulic reaction turbine: Parts 1 and 2 1286
- Bowen, D. E.  
Velocity of ultrasound in lithium-ammonia solutions 4029
- Bowen, J. R.  
An appraisal of the continuous explosion laser 4858
- Bowen, R. M.  
Diffusion in mixtures of elastic materials 2966
- Bower, E. K.  
A comparison of two digital methods of EEG simulation 2489
- Bower, J. E.  
Pressure tests of cylindrical steel pressure vessels reinforced with steel wire wrapping 2008

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Bowers, C. E.  
Fluctuating pressures in spillway  
stilling basins 8831
- Bowers, R. C.  
Pressure effects on the friction co-  
efficient of thin-film solid lubri-  
cants 6721
- Bowes, P. C.  
Thermal ignition in two-component  
systems, theoretical model 7458
- Bowling, K. McG.  
Some theoretical and experimental  
studies on fluidized gasification of  
solid fuels 575
- Bowman, H. A.  
An improved high-precision calibra-  
tion procedure for reference  
standard hydrometers 6452
- Bowman, H. F.  
The influence of nuclear radiation  
on pool-boiling heat transfer to  
liquid helium 1358
- Bowman, J. S., Jr.  
See Chambers, J. R. 1256
- Bowman, R. M.  
Improvements in design of thin-film  
heat transfer gages for a low-pres-  
sure shock tube 8227
- Box, G. E. P.  
Some recent advances in forecasting  
and control: Part 1 800  
A Bayesian approach to some outlier  
problems 9241
- Box, M. J.  
Planning experiments to test the  
adequacy of nonlinear models 9242
- Boyarshinov, S. V.  
Design of plane and three-dimen-  
sional rings 9369
- Boyles, C. A.  
Wave theory of an acoustic Luneberg  
lens: Part 1; Part 2, The theory of  
variable density lenses 1488
- Boyne, P. J.  
Review of the literature on cryo-  
preservation of bone 2453
- Bozeman, J. D.  
Flow in the entrance region of a  
concentric-sphere heat exchanger 9824
- Bozhinskii, A. N.  
Relation between local strains  
theory and deformation theory in  
the problem of stability of inelastic  
shells 2662
- Bozis, G.  
Families of figure-eight orbits in the  
restricted three-body problem 3097
- Brace, W. F.  
A test of the law of effective stress  
for crystalline rocks of low porosity  
Laboratory studies pertaining to  
earthquakes 7569
- Brach, R. M.  
See Fiore, N. F. 2364
- Brachet, G.  
See Kevorkian, J. 4845
- Bradley, J. H.  
Programmer's guide to the IBM  
system/360 5915
- Bradley, J. N.  
Corrosion-resistant components  
made by welding 8815
- Bradley, R. D.  
See Branthwaite, M. A. 3251
- Bradley, W. B.  
An investigation of propagating  
cracks by dynamic photoelasticity 6207
- Bradshaw, F. J.  
The influence of gaseous environ-  
ment and fatigue frequency on  
the growth of fatigue cracks in  
some aluminum alloys 7905
- Bradshaw, P.  
Conditions for the existence of an  
inertial subrange in turbulent flow 2139
- Bradshaw, R. L.  
Migration of brine cavities in rock  
salt 4054  
See also Lomenick, T. F. 1902
- Brady, B. T.  
The effect of mechanical anisotropy  
on the transmission of low-ampli-  
tude stress waves in brittle rock 7047
- Braida, L. D.  
See Durlach, N. I. 7609
- Brain, T. J. S.  
Thermal conductivity of steam at  
atmospheric pressure 2201
- Bramley, A. N.  
See Kellow, M. A. 5309
- Brammer, J. A.  
Elevated-temperature elastic moduli  
of 2024 aluminum obtained by a  
laser-pulse technique 9550
- Brand, L.  
Cut-off solutions for linear differ-  
ential and difference equations 3280
- Brand, R. S.  
See Strawderman, W. A. 2162
- Brandi, G.  
Measurement of coronary flow in  
local areas of myocardium using  
Xenon 133<sup>1,2</sup> 3252
- Brandmaier, H. E.  
Limits on unidirectional composite  
material properties 5078
- Brandon, E.  
The weldability of oxygen-free,  
borondeoxidized and deoxidized  
low phosphorus copper 5448
- Brandt, A.  
Interior estimates for second-order  
elliptic differential (or finite-differ-  
ence) equations via the maximum  
principle 4157
- Brandt, A. M.  
Odkształcalność betonu w świetle  
pomiarów szczytu składowych  
stanu odkształcenia (The deforma-  
bility of concrete in the light  
of measurements of the six strain  
components) 1725
- Brandt, B. B.  
Flow of a liquid over large gas  
bubbles 6680
- Brandt, F.  
See Lottel, G. 9281
- Brandt, J. F.  
Underwater hearing thresholds in  
man as a function of water depth 6742
- Branthwaite, M. A.  
Measurement of cardiac output by  
thermal dilution in man 3251
- Braslavskii, V. M.  
Increasing the bending strength of  
bevel-gear teeth 4509
- Bratina, W. J.  
See McGrath, J. T. 1928  
Rosinger, H. E. 8539
- Braton, N. R.  
See Kotecki, D. J. 7168
- Bratukhin, Iu. K.  
Equilibrium figures of a rotating  
liquid cylinder 8934
- Braude, A. Z.  
See Kuzmak, G. E. 9902
- Brauer, F.  
Green's functions for singular ordi-  
nary differential operators 5894
- Braun, P.  
See Bassa, G. 550
- Braun, S.  
Transducer cross-sensitivity measure-  
ment in the frequency domain 1292
- Braun, W.  
Analysis of the mixing region for a  
two-dimensional jet injected at an  
angle to a moving stream 1215  
See also Goldstein, M. E. 1174  
Goldstein, M. E. 1175
- Braun, W. H.  
See Goldstein, M. E. 9974
- Bray, F. M.  
An experimental investigation of the  
free vibration of thin cylindrical  
shells with discrete longitudinal  
stiffening 9447
- Bray, P. F.  
Subsurface fatigue strength of a  
steel 1091
- Bray, R. S.  
Metallographic study of weld solidi-  
fication in copper 5447
- Brazilevsky, Y. S.  
See Stumpf, V. M. 4954
- Breach, D. R.  
See Chester, W. 4546
- Breakwell, J. V.  
Minimum-impulse, time-free transfer  
between neighboring noncoplanar  
elliptical orbits with major axes  
perpendicular to the line of nodes 5765
- Brearley, M. N.  
The terminal behavior of a uni-  
formly shortening pendulum 79
- Brebbia, C.  
Geometrically nonlinear finite-  
element analysis 2782
- Brebbia, C. A.  
On the calculation of shallow hyper-  
bolic paraboloid shells 3406
- Bredikhina, E. A.  
Absolute convergence of Fourier  
series of nearly periodical functions 3283

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Breen, J. E.  
See Green, R.  
MacGregor, J. G. 6252  
7115
- Breiter, M. C.  
A program for computing error  
bounds for the solution of a sys-  
tem of differential equations  
See also Guderley, K. G. 2482  
7253
- Brekhov, A. F.  
Radial variation of the velocity of  
flow in the working rotor of the  
stage of an axial compressor 8155
- Brekhovskikh, L. M.  
On the radiation of infrasound into  
the atmosphere by ocean waves 721
- Bremermann, H. J.  
Pattern recognition, functionals,  
and entropy 1639
- Bremhorst, K.  
See Bullock, K. J. 7320
- Brendel, K.  
Resonance-absorbers for waterborne  
sound with viscous losses in fluid  
layers 6638
- Brennan, M. H.  
Investigation of the plasma produced  
by a normal ionizing shock wave  
using polychromator 2321
- Brennan, P. J.  
See Mandel, J. A. 4257
- Brenneisen, A.  
On the deformation, cracking and  
ultimate strength of prestressed  
and partially prestressed concrete  
beams under static and dynamic  
loads 8775
- Brennen, C.  
A numerical solution of axisym-  
metric cavity flows 2133
- Brepta, R.  
Stress waves and shocks in solid  
bodies  
Critical comments to the solution  
of longitudinal impact in bars  
treated by Love's equation 4325  
Approximate calculation of the  
dispersion relations for longitudi-  
nal waves in rods with circular and  
rectangular cross section 6109
- Brereton, R. C.  
See Modi, V. J. 5771
- Bresgen, H.  
Two-dimensional investigation of  
MHD generators considering the  
Hall effect 3966
- Bressan, S.  
Mean properties of electromagnetic  
fields 1424
- Bretherton, F. P.  
On the mean motion induced by  
internal gravity waves 498  
See also Geisler, J. E. 724
- Bretthauer, G.  
Analysis of mushroom decks  
On the calculation of mushroom  
roofs: Part 1, Deflection 2626  
7146
- Brettie, H. J.  
Ultimate strength design of rectan-  
gular reinforced concrete sections  
in compression and biaxial bending 1120  
Ultimate strength design of multi-  
cell rectangular reinforced concrete  
bridge piers 5383  
See also Warner, R. F. 350
- Breuer, S.  
Lower bounds on work in linear  
viscoelasticity 6006  
On the form of the free energy in  
linear viscoelastic solids 6856
- Breus, T. K.  
Sources of E-region heating 4855
- Brevaux, P.  
See Mentre, P. 7294
- Brewe, D. E.  
See Coe, H. H. 6732
- Brewer, J. A., III  
Path generating five-bar mechanisms 8805
- Brewer, W. D.  
Evaluation of a flash X-ray tech-  
nique for recession measurements  
in ablative materials 5701
- Brewer, W. V.  
Interaction of an axisymmetrically  
loaded plate with the elastic space 9374
- Bridgewater, J.  
Influence of wing root shaping on  
the pressure distribution of swept-  
wing body configurations 8926
- Bridgland, T. F., Jr.  
See Nash, W. A. 5158
- Brigham, E. O.  
See Tillotson, T. C. 8454
- Bright, P. E.  
See Affleck, W. S. 8252
- Brinkmann, K.  
The superposition of two plane  
sound waves of finite amplitude  
and coincident direction of propa-  
gation 2374
- Brinkworth, B. J.  
An introduction to experimenta-  
tion 8162  
See also Edwards, J. 703
- Brinson, H. F.  
The ductile fracture of poly-  
carbonate 7943
- Brish, N. I.  
The Fourier method for nonsta-  
tionary equations with general  
boundary conditions 766
- Briskman, V. A.  
Parametric instability of a fluid sur-  
face in an alternating electric field 4811
- Brittin, W. E.  
Investigation of the dynamic of  
ionized media (plasmas): Part 1,  
Statistical mechanical theory of  
fields; Part 2, The role of plasma  
kinetic theory in stark broadening 602
- Broad, M. S.  
Measurement of static strain under  
rapid heating 2777
- Brocher, E.  
Investigation of resonance tubes  
excited by a subsonic jet 3120
- Brock, A. E.  
See Houghton, E. L. 8920
- Brock, H. T., Jr.  
Low-thrust, constant-acceleration  
trajectories for solar probe missions 9917
- Brock, J. S.  
See McCarthy, J. J. 8795
- Brock, R. R.  
Development of roll-wave trains in  
open channels 2942
- Brockenbrough, R. L.  
Structural metals: Steel 8779
- Brocker, D. H.  
See Stewart, E. C. 4195
- Brode, H. L.  
Gasdynamic motion with radiation:  
A general numerical method 7438
- Brodka, J.  
Elasto-plastic stress condition in  
double-tee sections under eccentric  
load 6259
- Brodkey, R. S.  
See Corino, E. R. 1243
- Brodskii, A. D.  
Simplified method for calibrating  
commercial platinum resistance  
thermometers in the range of  
12-90° K 4720
- Broek, H. W.  
Fluctuations in bottom temperature  
at 2000-meter depth off the Blake  
Plateau 4927
- Broer, L. J. F.  
On the zilch of plane waves 1  
Some properties of the solutions of  
wave equations 7338
- Broersma, G.  
Pneumatic transport of fine granular  
material 2398
- Brogan, F.  
Dynamic behavior of a cylinder with  
a cutout 995
- Brogan, W. L.  
Performance analysis of continuous,  
sampled, and multirate-sampled  
systems with random inputs 4176
- Bronin, S. Ya.  
See Biberman, L. M. 5512
- Bronsard, J. A.  
Motorized reducing valve controls  
cylinder position 7675
- Bronshtein, M. I.  
Solution of the contact problem for  
a plate lying on a wedge-shaped  
base 4230
- Brook, R. H. W.  
Cumulative damage in fatigue: A  
step towards its understanding 5335
- Brook, R. R.  
The effect of averaging time and  
sample duration on estimation and  
measurement of maximum wind  
gusts 1549
- Brooks, D. S.  
The elasto-plastic behavior of a  
circular bar loaded by axial force  
and torque in the strain hardening  
range 128

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Brooks, J. D.  
Laboratory investigation of diffraction and reflection of sonic booms by buildings 8316
- Broom, T.  
Progress in research on cycle-dependent fatigue 292
- Bross, H.  
The fundamental integral of the theory of elasticity for cubic media 847
- Brossard, J.  
Transfer of energy from an exploding wire to a detonating gas 8230
- Brothie, J. F.  
On crustal flexure 5840
- Brothers, A. J.  
See Goldhoff, R. M. 6190
- Brotton, D. M.  
See Johnson, D. 7959
- Broucke, R.  
Stability of periodic orbits in the elliptic, restricted three-body problem 1456
- Broutman, L. J.  
Determination of fracture sites in composite materials with liquid crystals 5318
- Browman, M. Ya.  
Calculating the prestressing of rolling mill stands 2799
- Brown, A.  
A diffusion problem with spherical symmetry: Temperature distribution for different initial conditions 9785
- Brown, B.  
General properties of matter 5964
- Brown, C. B.  
On the necessity of a nonslip mechanism between steel and concrete in the region of a crack 4395
- Brown, C. S.  
An experimental and theoretical comparison at  $M = 4$  of the lift-to-drag ratio of some possible aircraft shapes 9710
- Brown, D. R.  
See Davies, L. 521
- Brown, E. J.  
Thermal stresses in bonded materials containing cuts on the interface 4905
- Brown, E. T.  
Strength of a model of jointed rock 8695
- Brown, F. C.  
A model for the prediction of velocity and void fraction profiles in two-phase flow 8046
- Brown, F. T.  
A quasi-method of characteristics with application to fluid lines with frequency dependent wall shear and heat transfer 1273
- Brown, G. W.  
The fatigue of aluminum alloys subjected to random loading 9528  
See also Cunningham, D. M. 6219
- Brown, J. C.  
Large deflections of rectangular plates subjected to uniform lateral pressure and compressive edge loading 8571
- Brown, M. V.  
Intensity fluctuations in reflections from the ocean surface 1547
- Brown, P. T.  
The effect of local bearing failure on behavior of rigid circular rafts 2628  
Finite internal solution of differential equations 3271  
Numerical analyses of uniformly loaded circular rafts on elastic layers of finite depth 4345  
Numerical analyses of uniformly loaded circular rafts on deep elastic foundations 8680
- Brown, R. D.  
High speed sampling and the response shock spectrum 7861
- Brown, R. H.  
An experimental machine tool for cutting and high energy rate forming studies 6175
- Brown, R. J. S.  
Normal-moveout and velocity relations for flat and dipping beds and for long offsets 2407
- Brown, R. K.  
Small twist of a circular cylindrical tube exhibiting cylindrical aeolotropy of a nonorthogonal type 864
- Brown, R. L.  
Principles of powder mechanics: Essays on the packing and flow of powders and bulk solids 9953
- Brown, R. N.  
Analog simulation of a bilinear hysteretic system undergoing random vibration 9264
- Brown, R. T.  
See Mikesell, W. R. 2821
- Brown, S. L.  
See Charm, S. E. 3250
- Brown, W. A.  
The determination of optimal control sequences for linear digitally-controlled continuous systems using a sum-of-absolute-error index 817  
See also Morsztyn, K. 2529
- Browne, H. C.  
Plastics in construction 8791
- Brown-Grant, K.  
Regulation and control of the thyroid-pituitary system 3261
- Brownlee, W. G.  
See Roberts, A. K. 7467
- Bruce, M. M.  
Estimation of variance by a recursive equation 777
- Bruch, J. C., Jr.  
Capillarity and seepage from an array of channels 6686
- Bruff, W.  
Some characteristic qualities of powder materials 3166
- Bruges, E. A.  
Dynamic viscosity of compressed water to 10 kilobar and steam to 1500°C 4712
- Bruhns, O.  
Elasto-plastic bending of a plate strip in the case of finite strains 7755
- Brulard, J.  
Contribution to the study of the combustion of aluminum particles 3912
- Brun, L.  
On dynamic viscoelasticity 236  
See also Mandel, J. 235
- Brunelle, E. J.  
The transient response of second-order nonlinear equations 6818
- Brun-Gabriel, J.-M.  
A calculation method for wings in steady or unsteady supersonic flow 6406
- Bruni, C.  
The identification of linear time-invariant systems by means of orthonormalized exponential series expansions: Part 1, Case of negligible measurement errors and noise 4170  
The identification of linear time-invariant systems by means of orthonormalized exponential series expansions: Part 2, Case of non-negligible measurement errors and noise 4171
- Brunne, M.  
Equation of ion waves dispersion in EGD channel flows of unipolar, weakly ionized liquid 3057
- Brunovsky, P.  
On the necessity of a certain convexity condition for lower closure of control problems 816
- Brunshstein, R. E.  
Transit motion of a two-mass impact-vibrator system 8626
- Brunt, N. A.  
Creep, cold drawing, and flow: A theory of the viscoelastic behavior of high polymers at very large deformations 6001
- Brushlinskii, K. V.  
On the evolution of equations of magnetohydrodynamics taking the Hall effect into account 3079  
Effect of finite conductivity on stationary self-contracting plasma flows 6579
- Brusilovskii, A. D.  
See Shveiko, Yu. Yu. 196
- Brusin, V. A.  
Generalized problems in stochastic approximation 5020
- Bryan, K.  
A nonlinear model of an ocean driven by wind and differential heating: Part 1, Description of the three-dimensional velocity and density fields; Part 2, An analysis of the heat, vorticity and energy balance 720  
See also Orlanski, I. 7572
- Bryant, A. H.  
Cylindrical shell roofs with draped prestressing 2813
- Brykov, N. N.  
See Popov, V. S. 2436

- Bryson, A. E., Jr.  
Minimum fuel lateral turns at constant altitude 634
- Bryson, J. O.  
Flexural behavior of prestressed concrete composite Tee-beams 9586
- Brzozowski, W.  
Review of work related to plasma parameter measurements in MHD generators and plasma jets performed at the Institute of Nuclear Research in Poland 9087
- Bschorr, O.  
Orbit transfers in moving gravitational fields 3106
- Bublik, B. N.  
Natural frequencies of oscillation for rectangular plates containing slits 2688
- Bucciarelli, L. L., Jr.  
Torsional stability of shallow shells of revolution 4279
- Buchacek, K.  
Coaxially-deviatoric theory of nonlinear elasticity 4211
- Buchan, A. L.  
The behavior and stability of wind operated steering systems for sailing yachts 2427
- Buchanan, G. R.  
Nonlinear analysis for a clamped bar  
Analysis of an underwater cable 985  
8545
- Buchelnikova, N. S.  
Diffusion in an unstable highly inhomogeneous plasma 1428
- Bucher, F.  
See Huder, J. 4357
- Buchert, K. P.  
See Crooker, J. O. 6921
- Buchholdt, H. A.  
A nonlinear deformation theory applied to two-dimensional pretensioned cable assemblies 320
- Buchmann, W.  
Calculation of circularly orthotropic plane curved beams of constant thickness subject to pure bending 5082
- Buchwald, V. T.  
The propagation of continental shelf waves 6702
- Buckley, D. H.  
Effect of 3½ per cent silicon on adhesion, friction, and wear of iron in various media 4091  
The influence of crystal structure and some properties of hexagonal metals on friction and adhesion 4965
- Buckmaster, J.  
Inviscid layers in magnetohydrodynamics 9066  
Some remarks on Hele-Shaw flow and viscous tails 9644
- Bucko, St.  
Analysis of the elastoplastic buckling of cylindrical shells through the method of generalized power series 7794
- Budach, P.  
See Reichardt, W. 3145
- Budak, B. M.  
Difference approximations in optimal control problems 8480
- Budiansky, B.  
On optimal arches 5386  
See also Fraser, W. B. 6054
- Budin, A. Ya.  
A rheological model for the creep of soils 7014
- Budlong, K. S.  
A simplified method for predicting satellite passes 9106
- Budzianowski, Z.  
The stress changes in low buildings, under mutual action of creeping and curvature of subsoil 7023
- Budzinskii, V. V.  
Strength of a diesel engine connecting-rod 4520
- Budzirovskii, V. N.  
See Aslanov, S. K. 9121  
Aslanov, S. K. 9919
- Buell, J.  
Numerical results for a mixed boundary-value problem of potential theory using invariant imbedding 5807
- Buerger, E. J.  
Motion simulator facility for spacecraft attitude control evaluation 9910
- Buettner, D. R.  
Creep of preshrunk concrete 7121
- Buevich, Iu. A.  
Non-Newtonian hydromechanics of disperse systems 387
- Buevich, Yu. A.  
The effect of hydrodynamic friction on the stability of a wall layer in annular two-phase flow 470  
Two-fluid hydrodynamics of a fluidized bed 5487
- Bufler, H.  
Theory of discontinuous and continuous joints 8814
- Bugl, P.  
See Shaw, R. P. 6995
- Bugnolo, D. S.  
Stochastic Born series for sound propagation in random media: Part 1, The expectation of the field 6637
- Buina, E. V.  
See Panasyuk, V. V. 1923
- Buiten, J.  
A proposal on noise criteria for seagoing ships 4869
- Bukhin, V. E.  
Device for bending tests on welds in thermoplastic pipes and sheets 9559
- Bukhman, M. A.  
See Ustimenko, B. P. 1406
- Bukreev, V. Z.  
Method of approximate synthesis of optimal control 9300
- Bukus, I. A.  
Calculating the characteristics of supporting gas-static bearings 10014
- Bulavs, F. Ya.  
See Skudra, A. M. 2621
- Bulirsch, R.  
Numerical calculation of elliptic integrals and elliptic functions: Part III 7643
- Bulkeley, P. Z.  
See Advani, S. H. 6088
- Bull, M. K.  
Mean shear in a constant-pressure turbulent boundary layer 2898
- Bullen, N. I.  
Gusts, discrete and indiscrete 6421
- Bullock, K. J.  
Hot-wire anemometer measurements in flows where direction of mean velocity changes during a traverse 7320
- Bulson, P. S.  
The strength of thin-walled tubes formed from flat elements 3427
- Bulychev, V. A.  
Two new methods of eliminating the imbalance of parts 3445
- Bulygina, E. V.  
Hypersonic profile with specified bending strength and minimum drag 3765
- Bundin, A. A.  
Determination of heat-transfer-coefficients in packed regenerators  
A method of determining the coefficient of heat loss in the nozzles of regenerators 2273  
5693
- Bunney, R. E.  
Rayleigh and Lamb waves on cylinders 5802
- Bunyakin, S. V.  
Application of Lyapunov functions to the estimation of solutions obtained by the method of harmonic balance 7658
- Bur, T. R.  
See Thill, R. E. 4919
- Burbure, R. N.  
See Durvasula, S. 3452
- Burda, N. V.  
See Tsurulnikov, L. M. 9037
- Burdekin, F. M.  
Fracture in spherical pressure vessels 4393
- Burdelov, B. V.  
A fatigue machine for bend testing of flat samples 8750
- Burdi, A. R.  
Infants and children in the adult world of automobile safety design: Pediatric and anatomical considerations for design of child restraints 4112
- Burford, L. W.  
See Sauer, H. J., Jr. 2222
- Burge, S. J.  
The burning of polymers 8238
- Burgel, B.  
On the theory of fiber strengthening 8527
- Burgess, T. J.  
See Johnson, P. M. 9126
- Burgmann, J. B.  
Dynamic plastic analysis of pin-jointed frames 8777

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Burgoyne, J. H.**  
The spread of flame across a liquid surface: Part 1, The induction period 6519  
The spread of flame across a liquid surface: Part 2, Steady-state conditions; and Part 3, A theoretical model 6520
- Burgvits, A. G.**  
Definition of the supporting power of a gas-lubricated thrust bearing with spiral grooves of arbitrary transverse profile 7599
- Burhouse, P.**  
Composite action between brick panel walls and their supporting beams 5419
- Burk, S. M., Jr.**  
Low-speed deployment, inflation, and steady-descent characteristics of ram-air-inflated balloon recovery systems with peripheral airscoops 2340
- Burka, E. S.**  
Problems of fluid-flow machines 6439
- Burkov, V. N.**  
Methods for the solution of extremal problems of combinatorial type 6807
- Burland, J. B.**  
See Roscoe, K. H.  
Lewin, P. I. 250  
9502
- Burmakov, Yu. A.**  
Numerical determination of rays and travel-time curves of refracted waves 3193
- Burminkii, E. P.**  
Ambipolar diffusion in the boundary layer formed behind a shock front 1440
- Burn, K. N.**  
See Crawford, C. B. 8677
- Burnard, E. D.**  
See Giombi, A. 10020
- Burnat, M.**  
Hyperbolic double waves 9725
- Burnett, E. F. P.**  
See Cohn, M. Z. 5381
- Burnham, J.**  
Atmospheric gusts: A review of the results of some recent RAE research 8932
- Burniston, E. E.**  
An example of a partially closed Griffith crack 1918
- Burns, D. J.**  
See Crosby, J. R. 4404
- Burns, N.**  
Production of a silicone rubber film for the membrane lung 8406
- Burns, S. G.**  
A microwave plasma density measuring system with microsecond response time 7497
- Burns, W. K.**  
The influence of foreign gas injection and slot geometry on film cooling effectiveness 4758
- Burridge, R.**  
The self-similar problem of the expanding elliptical crack in an anisotropic solid 5995
- Burrows, M. C.**  
Thermometric determination of oxidant-fuel distribution within a rocket combustor 8246
- Burrows, R. R.**  
Optimal continuous low-thrust trajectories for co-altitude rendezvous 4005
- Burstall, A. F.**  
Simple working models of historic machines, easily made by the reader 3631
- Burt, E. G. C.**  
The dynamics of low-thrust spacecraft manoeuvres 6617
- Burton, C. L.**  
See Goldstein, P. 3010
- Burton, R. A.**  
See Constantinescu, V. N. 10008
- Burton, R. L.**  
Conditions for the steady one-dimensional motion of a current sheet 3949  
A laser interferometer schlieren system for high frequency gas density measurements 9752
- Busch, M.**  
Some methods for the complete analysis of the plane stress distribution in photoplasticity 7078
- Bush, S. A.**  
See Moment, R. L. 7167
- Bush, W. B.**  
See Cross, A. K. 5510
- Bushnell, D.**  
Asymptotic analysis for axisymmetric buckling of axially compressed short cylinders with free edges 1810  
Analysis of buckling and vibration of ring-stiffened, segmented shells of revolution 9414
- Bushnell, D. M.**  
See Harvey, W. D.  
Hinson, W. F. 2128  
9032
- Businger, J. A.**  
Sonic anemometer comparison and measurements in the atmospheric surface layer 5857
- Businger, P. A.**  
Matrices which can be optimally scaled 4139
- Busnik, V. M.**  
Investigation of the processes of mass transfer towards the heated surface 3023
- Busse, F. H.**  
On Howard's upper bound for heat transport by turbulent convection 5665
- But, D. A.**  
See Bertinov, A. I. 3967
- Butefisch, K.**  
Experimental determination of rotational and vibrational temperature and density by means of the electron beam technique in the flow field of a circular cylinder in hypersonic free stream at stagnation temperature from 1100 to 1800° K 8091
- Buti, B.**  
High-frequency waves in a collisional plasma with magnetic field 1436
- Butkovskii, A. G.**  
Finite control of systems with distributed parameters 4177  
Problems of finite control of linear systems with lumped parameters 5923
- Butkovsky, A. G.**  
Optimum control of distributed systems: A survey of Soviet publications 2537
- Butler, A. A. W.**  
See Gifford, E. W. H. 4490
- Butler, G. F.**  
Modification of a normal shock by electrostatic forces 3125  
A note on magnetohydrodynamic duct flow 6543
- Butler, H.**  
See Bourne, J. R. 6446
- Butler, T. D.**  
Numerical analysis of a coaxial accelerator 3950
- Butlin, G. A.**  
A compatible triangular plate bending finite element 8555
- Butryakov, B. N.**  
See Molchanov, E. I. 682
- Butterfield, R.**  
A theoretical study of the pressures developed in a silo containing single-size particles in a regular packing 3614
- Butterworth, N. A.**  
See Thompson, P. J. 3528
- Buxmann, J.**  
See Martin, P. 1411
- Buzyna, G.**  
See Wegener, P. P. 434
- Byakov, L. I.**  
See Sosnovskii, L. A. 5350
- Byalyi, B. I.**  
Hydrodynamic theory of lubrication of porous bearings 8390
- Bychawski, Z.**  
The constitutive equation of a complete nonlinear viscoelastic material 869
- Bychkov, N. G.**  
Determination of the amplitude of elastic-plastic deformations (strains) in thermal-fatigue tests 6659
- Bykov, D. L.**  
On a generalization of the method of elastic solutions 7728
- Bykov, N. N.**  
A study of the characteristics of turbines with varying exhaust section arrangements 3040
- Bykovtsev, G. I.**  
On kinematic relationships on slip surfaces in ideal rigid-plastic bodies 6019

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- B**
- Bynum, D., Jr.**  
Vibration-test evaluation of an ULLAGE solid-propellant rocket motor 6101
- Byrkin, A. P.**  
Exact solution of the Navier-Stokes equations for a compressible gas 6358
- Byshev, V. I.**  
The time spectra of some characteristics of the atmosphere above the ocean 9182
- Byushgens, G. S.**  
Dynamics of the three-dimensional motion of an aircraft 3760
- C**
- Caddell, R. M.**  
Optimum die angles and maximum attainable reductions in rod-drawing 4379
- Cadman, R. V.**  
Rohamite-geometry and force analysis 2030  
Electrodynamic oscillating compressors: Part 1, Design based on linearized loads 6447  
Electrodynamic oscillating compressors: Part 2, Evaluation of specific designs for gas loads 6448
- Cakmak, A. S.**  
See Askar, A. 850
- Calderwood, J. H.**  
See N-Nagy, F. L. 5031
- Caldwell, D. R.**  
Sensors in the deep sea 4930
- Calfo, F. D.**  
Cryogenic fracture properties of thin AISI 301 60-per cent cold-reduced sheet at various angles to the rolling direction 1083
- Calladine, C. R.**  
Plastic behavior of thin cylindrical pressure vessels with circular cut-outs and radial branches 2007  
Engineering plasticity 6862
- Callari, C. E.**  
The instability of an axially loaded viscoelastic constrained bar in the large displacement range 871
- Callegari, A.**  
See Spillers, W. R. 6989
- Callighan, J. A.**  
The thermal stability of fluorocarbons 114 and 216 2291
- Calmon, J.**  
Flow of a compressible fluid in a turbomachine stage: Part 1 6445
- Calvit, H. H.**  
See Nachlinger, R. R. 3366
- Calzona, R.**  
On a method for designing monolithic sections in prestressed concrete 4483  
Membrane calculation of shells of double curvature with the middle surface in form of a hyperbolic paraboloid 6039
- Camac, M.**  
See Schapker, R. L. 7258  
Sutton, G. W. 9658
- Cameron, A.**  
See Manton, S. M. 748
- Camp, T. R.**  
Hydraulics of mixing tanks 6323
- Campanella, R. G.**  
See Mitchell, J. K. 4337
- Campbell, B.**  
Shock development in an electrothermal shock tube 2190
- Campbell, G. S.**  
Ballistic-range measurements of vibrational-nonequilibrium effects for cone-cylinders at supersonic speeds 8887
- Campbell, I. A.**  
See Hornung, H. G. 1204
- Campbell, J. F.**  
Experimental flow properties in the wake of a 120° cone at Mach number 2.20 516  
Supersonic lifting capabilities of large-angle cones 2151  
Pressure distributions on 140°, 160°, and 180° cones at Mach numbers from 2.30 to 4.63 and angles of attack from 0° to 20° 4581
- Campbell, M. J.**  
Electrical properties of rocks and their significance for lunar radar observations 6162
- Campos, P. E.**  
See Gaffney, J. S. 7827
- Canagaratna, S. G.**  
A critique of the definitions of heat 7382
- Cann, M. W. P.**  
See Krause, F. R. 1287
- Cannon, J. P.**  
Photoelastic study of flow and fracture of notched steel plates 7073  
Yield-line analysis and design of grids 8776
- Cannon, J. R.**  
A numerical experiment on the determination of unknown parameters in an analytic system of ordinary differential equations 4159  
The approximation of the solution to the heat equation in a half-strip from data specified on the bounding characteristics 8989
- Cano, N. O., Jr.**  
See Sweet, H. J. 7921
- Canon, M. D.**  
Theory of optimal control and mathematical programming 5942
- Canright, R. B., Jr.**  
Implementation and structure of COMPUTE, a time-sharing calculator program 2484
- Cansdale, R.**  
Gust response measurements on a model aircraft 9720
- Cantin, A.**  
See Kirkpatrick, A. 600
- Cantrell, J. W.**  
Relation between the memory gradient method and the Fletcher-Reeves method 5043
- Cap, F.**  
Viscous MGD channel flow in boundary-layer approximation with heat conduction 2316
- Capone, F. J.**  
Subsonic aerodynamic characteristics of a large-scale 1.075-pressure-ratio tip-turbine cruise-fan propulsion system at angle of attack 4783  
Subsonic performance characteristics of a large-scale 1.075-pressure-ratio tip-turbine cruise-fan propulsion system 4784
- Cappelli, A. P.**  
Analysis of shells of revolution having arbitrary stiffness distributions 4265
- Capriz, G.**  
On the thermodynamics of viscoelastic continua 2967
- Carafoli, E.**  
Supersonic plane flows separated by a jet-flap 4580  
Determination of the pressures and the shock wave from in plane supersonic or moderate hypersonic flow 6405  
Supersonic flow past a delta wing with symmetrical camber and twist, and with leading edge separation 8127
- Carden, H. D.**  
Measured vibration response characteristics of four residential structures excited by mechanical and acoustical loadings 7528
- Cardinale, S. V.**  
See Donham, R. E. 9103
- Carelli, M.**  
A radioactive tracer technique for measuring coolant mixing in nuclear reactor fuel subassemblies 9754
- Caren, R. P.**  
Radiation transfer from a metal to a finely divided particulate medium 554
- Cargill, J.**  
Measuring strains under welds by the moire fringe technique 8735
- Carine, J. B.**  
See Dixon, S. C. 9420
- Carl, W. P.**  
The Dolphin control system: Autopilot 1565
- Carley, C. T.**  
See Powe, R. E. 8997
- Carlson, D. E.**  
See Petroski, H. J. 3154
- Carlson, H. W.**  
See Morris, O. A. 6631  
Miller, D. S. 9132
- Carlton, L. A.**  
See McKinley, R. M. 8352
- Carlucci, N. A.**  
See Benedict, R. P. 3693

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Carman, C. M.  
Some fractographic observations of fatigue-crack growth in maraging steel 9536
- Carmeron, A. V.  
A closed form recursive learning filter for a class of processes with unknown parameters 5962
- Carmichael, R. L.  
See Nelms, W. P., Jr. 484
- Carnegie, W.  
A numerical technique for the solution of some nonlinear systems 7803  
An improved method of matrix displacement analysis in vibration problems 9436  
See also Rao, J. S. 9439
- Carney, J. F., III  
Dynamic response of a spherical structural system in fluid media 2945  
Dynamic stability of discrete spherical structural systems in fluid media 2946
- Carome, E. F.  
See Singal, S. P. 4025  
Feke, G. T. 9771
- Caron, P. R.  
Plasma generation using a large V-groove cathode discharge 617  
A laboratory study of microwave radiometric techniques for reentry plasma measurements 4837
- Carpenter, A.  
See Webster, J. C. 645
- Carpenter, E. F.  
See Bryson, J. O. 9586
- Carpenter, H. J.  
See Zimmerman, A. W. 9673
- Carpenter, J. E.  
Tests of reinforced concrete wall beams with large web openings 3596
- Carr, J. B.  
The torsional vibration of uniform thin-walled beams of open section 6946
- Carr, R. E.  
Integral equation formulation for certain interface boundary value problems 8423
- Carrier, G. F.  
Ordinary differential equations 3
- Carrillo, D.  
See Broutman, L. J. 5318
- Carroll, M. M.  
Plane waves in nonsimple elastic solids 1861  
Some results on finite amplitude elastic waves 2716  
Controllable motions of incompressible non-simple materials 5081
- Carroll, R. D.  
The determination of the acoustic parameters of volcanic rocks from compressional velocity measurements 8693
- Carskaddan, P. S.  
Bending of deep girders with A514 steel flanges 6022
- Carson, W. G.  
Plate buckling analysis using a fully compatible finite element 180
- Carstou, J.  
Essay on fundamentals of electrodynamics of moving continuous media and applications 3084
- Carter, C.  
See Stafford Smith, B. 7132
- Carter, R. L.  
Free vibrations of hyperboloidal shells of revolution 5229
- Carton-Lebrun, C.  
Numerical solution of certain nonlinear partial differential equations with  $n + 1$  variables 8449
- Caruso, P., Jr.  
The orbiting astronomical observatory thermal test program 9914
- Cary, A. M., Jr.  
Summary of available information on Reynolds analogy for zero-pressure-gradient, compressible, turbulent-boundary-layer flow 2901
- Casado, M. P.  
Diffusion of particles in suspension in the lowest boundary layers of the Earth's atmosphere for non-adiabatic conditions 4938
- Casarella, M. J.  
Displacement effects on the laminar mixing of two parallel streams 443
- Casciano, F. M.  
See Grace, R. A. 4545
- Case, K. M.  
Burgers' turbulence models 3744
- Case, R. O.  
Photoelastic analysis of an orthotropic plate on a nonlinear foundation 7074
- Caseau, P.  
Mathematical modeling of power plants 54
- Cashman, W. F.  
See Wonham, W. M. 5953
- Casiano, R. M.  
Model-reference adaptive control system 824
- Caslin, J. C.  
See Fettis, H. E. 2476  
Fettis, H. E. 3298  
Fettis, H. E. 5912  
Fettis, H. E. 5913  
Fettis, H. E. 9254
- Cassanova, R. A.  
Flow field of a sonic jet exhausting counter to a low-density supersonic airstream 6356
- Cassanto, J. M.  
Correlation of free-flight base pressure data for  $M = 4$  to  $M = 19$  5515
- Cassell, A. C.  
Shells of revolution under arbitrary loading and the use of fictitious densities in dynamic relaxation 7761
- Cassel, C. E.  
Influence of rare earths in stainless steel bare wire electrodes 5449
- Cassell, R. E., Jr.  
Axial dispersion in turbulent flow through standard 90-degree elbows 2143
- Cassidy, J. J.  
Designing spillway crests for high-head operation 8826
- Castagna, A.  
Structure for a container which must withstand high external pressure and has its wall lightened by cavities containing fluids at very high pressure 6264
- Castanheta, M.  
See Marecos, J. 348
- Castellani, A.  
Damping measurements in reinforced concrete frames 6976  
See also Grandori, G. 3191
- Castellano, C. R.  
See Nelms, W. P., Jr. 484
- Castelli, V.  
Equilibrium characteristics of axial-groove gas-lubricated bearings 6731
- Casterline, J.  
See Israel, S. 5690
- Catherines, D. S.  
See Adelman, H. M. 9376
- Catton, I.  
Feasibility of rotational destratification of space-stored liquid cryogenics 7423  
Convection in a closed rectangular region: The onset of motion 8995  
See also Sherman, M. 5667
- Caughey, T. K.  
Instability and the energy criterion for continuous systems 2509  
Large amplitude whirling of an elastic string: A nonlinear eigenvalue problem 8605  
See also Dickerson, J. R. 1012
- Cavanaugh, L. A.  
See Alwang, W. G. 2036
- Cazenave, R.  
Integrales et fonctions elliptiques en vue des applications: Premiere partie, Domaine reel (Elliptic integrals and functions with a view to their applications: Part 1, Real domain) 7633
- Cebeci, T.  
Laminar free-convection heat transfer from a needle 2225  
Laminar boundary layers on slender paraboloids 8095  
Solution of the incompressible turbulent boundary-layer equations with heat transfer 8097  
See also Smith, A. M. O. 2895
- Ceccoli, C.  
Mushroom construction floors having elastically supported fields all around 6035
- Cederberg, H.  
Computation of creep effects in prestressed concrete pressure vessels using dynamic relaxation 873
- Cehan-Racovita, M.  
Variational determination of optimal processes defined by some integral performance criteria for automatic systems 3340

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Celmer, J.**  
Automatic analog computer scaling using digital optimization techniques 5003
- Celmins, A.**  
A method for the computation of hollow cylinder explosions 1472
- Cempel, C.**  
Influence of the initial conditions on natural vibrations of a bar with nonlinear support 3442
- Center, D. E.**  
Ultrasonic/radiographic examination of heavy-wall pressure-vessel weldments 4458
- Ceradini, G.**  
Application of linear programming to the plastic analysis of two- and three-dimensional continua: Part 1, Fundamental theory; Part 2, Application to plates and shells of revolution 5382  
Application of linear programming to problems of both static and dynamic plastic shakedown 8762
- Cercignani, C.**  
Mathematical methods in kinetic theory 2108
- Cermak, I. A.**  
Solution of two-dimensional field problems by boundary relaxation 6777
- Cermak, J. E.**  
See Chuang, H. 4072
- Cermak, J. O.**  
Turbulent, high Schmidt number, entrance region mass transfer in annuli 9826
- Cernoch, S.**  
Flow improvement in hot stoves through aerodynamic model studies 6531
- Cernuschi, F.**  
Teoria de errores de mediciones (Theory of errors in measurements) 15
- Cerny, J.**  
Selection problems of the input channels or digital systems 2541
- Cesari, L.**  
Optimization with partial differential equations in Dieudonne-Rashevsky form and conjugate problems 2469  
Multidimensional Lagrange problems of optimization in a fixed domain and an application to a problem of magnetohydrodynamics 3059  
Remarks on some existence theorems for optimal control 8477
- Ceschini, L. J.**  
See Clark, W. G., Jr. 1927
- Cess, R. D.**  
The large path length limit for infrared gaseous radiation 556
- Cetmeli, E.**  
Axisymmetric shell under symmetric load causing constant compressive stress in both directions 5168
- Chachava, K. V.**  
Measurement of forces during application of obstetric forceps 7608
- Chadwick, G. A.**  
See De Silva, A. R. T. 7556
- Chadwick, P.**  
The starting problem for spherical elastic-plastic waves of small amplitude 6112
- Chaeveskii, M. I.**  
Mechanism of corrosion cracking of metals deformed in contact with molten lithium 1940
- Chaffin, D. B.**  
An empirical investigation of low back strains and vertebrae geometry 4976  
A computerized biomechanical model: Development of and use in studying gross body actions 8408
- Chajes, A.**  
Stability behavior illustrated by simple models 4272
- Chaklader, A. C. D.**  
See Sunderland, P. W. 7721
- Chakrabarti, A.**  
Derivation of certain finite Lebedev transforms and their uses in elastostatics 7629  
Derivation of certain finite Kantorovich type of integral transforms 9235
- Chakrabarti, R. K.**  
See Das Talukder, N. K. 6044
- Chakrabarti, S. K.**  
On the formulation of constitutive equations 1699  
Plane thermal stress in a nonhomogeneous transversely isotropic rotating circular disk 3152  
Accuracy of compensation methods in photoelastic fringe-order measurements 7075
- Chakrabarty, H. S.**  
A note on finite deformations of a composite cylinder of barium titanate 9342
- Chakrabarty, J.**  
On uniqueness and stability in rigid/plastic solids 3381  
Bifurcation phenomenon and the rate-problem in plasticity 6007  
On the problem of uniqueness under pressure loading 7729  
A hypothesis of strain-hardening in anisotropic plasticity 9356
- Chakraborti, B.**  
Nonlinear deviations of the direction of a reflected wave in vacuum at a plasma boundary 3931
- Chakraborty, H. S.**  
On mechanical response in a piezoelectric transducer carrying a time-decaying space-charge 5354
- Chakraborty, S. K.**  
Propagation of waves in anisotropic viscoelastic solid from a spherical cavity 9484
- Chakravorty, J. G.**  
Effect of nonhomogeneity in elastic-plastic thick-walled cylinder under internal pressure 7727
- Chalam, V. V.**  
Torque transducers 7932
- Chaleat, R.**  
Application of higher-order approximation of the theory of perturbations to the calculation of the oscillation period 191
- Chalikov, D. V.**  
See Zilitinkevich, S. S. 4934  
Zilitinkevich, S. S. 7580
- Challinor, R. A.**  
The apparent rotation of the upper atmosphere 4941
- Chalupa, V.**  
Training methods of adaptive threshold elements 8486
- Cham, T-S.**  
Turbulent boundary-layer flow on a rotating disk 459
- Chambadal, P.**  
Entropy and information 8172
- Chambers, J. R.**  
Analysis of the flat-spin characteristics of a twin-jet swept-wing fighter airplane 1256  
Analysis of lateral-directional stability characteristics of a twin-jet fighter airplane at high angles of attack 4643  
Investigation of lateral-directional dynamic stability of a tilt-wing V/STOL transport 9716
- Chamecki, S.**  
Calculation of the progressive settlements of foundations 4339
- Chamis, C. C.**  
Buckling of anisotropic composite plates 5203
- Chan, J.**  
See Nowak, E. S. 2208
- Chan, K. S.**  
Bubble dynamics in a non-Newtonian fluid subject to periodically varying pressures 9722
- Chan, S.-C.**  
See Connor, J. J., Jr. 1129
- Chan, Y. Y.**  
Loitsianskii's method for boundary layers with suction and injection 1234  
Parametric approximation for incompressible laminar boundary layers with suction or injection 3727  
An experimental study of a yawed circular cone in hypersonic flows 4584
- Chanaud, R. C.**  
Experimental study of aerodynamic sound from a rotating disk 1473
- Chand, I.**  
Effect of window size, location and orientation on indoor air motion 7983
- Chandler, R. J.**  
The effect of weathering on the shear strength properties of Keuper Marl 6126
- Chandra, R.**  
Erection of steel and R. C. C. structures in Bharat Heavy Electricals, Ltd., Hardwar 9582  
See also Basava Raju, B. 156

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Chandra, U.**  
Comparison of focal mechanism solutions obtained from *P*- and *S*-wave data 9965
- Chandran, S.**  
*See* Sastry, M. S. 5740
- Chandrasekaran, A. R.**  
Dynamic behavior of cantilever beams 6081  
Impact dampers 7834  
*See also* Gosain, N. 7974
- Chandrasekhar, J.**  
Graphical analysis of a class of non-linear feedback control systems with step input 3314
- Chandrasekhara Swamy, N. V.**  
Friction coefficient for turbulent flow through smooth pipes 399
- Chang, A.**  
On the stability of elastically supported girders under nonconservative loading 960
- Chang, C. C.**  
*See* Chi, S. W. 5546
- Chang, C. M.**  
Gas-phase ignition of a solid fuel in a shock tube 9833
- Chang, C. S.**  
A parametric study of the complex variable method for analyzing the stresses in an infinite plate containing a rigid rectangular inclusion 101
- Chang, M.-S.**  
Mass transport in deep-water long-crested random gravity waves 7340
- Chang, P. C.**  
*See* Plate, E. J. 1263
- Chang, P.-Y.**  
A simple method for elastic analysis of grillages 169  
A vibration analysis of grillage beams 2694
- Chang, S.-C.**  
*See* Sickmann, J. 3793
- Chang, T.-C.**  
Upper and lower bounds for frequencies of elastic arcs 4290
- Chang, T. S.**  
Hydromagnetic stability of dissipative flow between rotating permeable cylinders: Part 1, Stationary critical modes 604  
Hydromagnetic stability of dissipative flow between rotating permeable cylinders: Part 2, Oscillatory critical modes and asymptotic results 605  
*See also* Lea, G. K. 4743
- Channabasappa, M. N.**  
Heat transfer by laminar flow in an annulus with porous walls with variable circumferential heat flux 4733
- Chao, B.-T.**  
Unsteady heat transfer in laminar boundary layer over a flat plate 2215  
Transient heat and mass transfer to a translating droplet 4755
- Chao, J.**  
*See* Lindgren, E. R. 5579
- Chapkin, R. L.**  
*See* Lewis, J. E. 1197  
*See also* Lees, L. 1390
- Chaplain, R. A.**  
On the contractile mechanism of insect fibrillar flight muscle: Part 1, The dynamics and energetics of the linearized system 3244
- Chapman, C. W.**  
Zero (or low) torsional stiffness couplings 7993
- Chapman, J. C.**  
*See* Aalami, B. 171  
*See also* Neogi, P. K. 3599  
*See also* Williams, D. G. 9372
- Chapman, M. W.**  
Some observations on the transverse rotations of the human trunk during locomotion 10024
- Chappell, W. R.**  
*See* Brittin, W. E. 602
- Charm, S. E.**  
The influence of radial distribution and marginal plasma layer on the flow of red cell suspensions 3250
- Charnow, M. L.**  
Reobservation of the tenth satellite of Jupiter 3984
- Charrett, D. E.**  
The application of digital computers to variational methods of plate analysis 1766
- Charsley, P.**  
The behavior of copper-12 per cent aluminum under simple reversed stresses 3552  
*See also* Desvaux, M. P. E. 8542
- Chatanier, M.**  
Theoretical and experimental characterization of the frequency stability of oscillators 7799
- Chatfield, E. J.**  
Some studies of the aerosols produced by the combustion or vaporization of plutonium-alkali metal mixtures: Parts 1 and 2 6672
- Chatfield, H. B.**  
*See* Serdengecti, S. 1906
- Chato, J. C.**  
A method for the measurement of the thermal properties of biological materials 2972
- Chatterjee, A. B.**  
*See* Basu, J. P. 4970
- Chatterjee, A. S.**  
*See* Gupta, A. S. 590
- Chatterjee, D.**  
Dynamic vibrations in homogeneous incompressible elastic shells 4305  
Note on the forced torsional oscillation of a transversely isotropic circular cylinder by the application of a transient shearing force at one end 6078  
Twisting of a spherical shell of non-homogeneous isotropic material 6904
- Chatterjee, S. K.**  
*See* Rajeswari, R. V. 219
- Chattopadhyay, S.**  
Note on the symmetrical bending of nonhomogeneous cylindrical shells of variable thickness 6040
- Chaturani, P.**  
A note on strong cylindrical shock waves in magnetogas dynamics 7479
- Chaudhari, P.**  
Mechanisms of stress relief in polycrystalline films 891
- Chaudhary, D. R.**  
Effective thermal conductivity of two-phase granular materials 1314
- Chaudhry, H. M.**  
Computation of sediment transport in irrigation canals 8033
- Chaudhry, H. R.**  
Finite torsion of a reinforced cylindrical tube of compressible elastic material 108  
*See also* Mehta, S. 1787
- Chaudhuri, B.**  
Note on stress distribution in a piezoelectric rectangular beam subjected to most general type of load distribution 6876  
On deformations of a rotating disk of electrostrictive material characterized by a viscoelasticity of Voigt type 7777
- Chaudhuri, K.**  
Waves in shallow water due to arbitrary surface disturbances 3777
- Chaudhuri, K. S.**  
Directional variation of shallow water waves due to arbitrary periodic surface pressure 2167
- Chaudhuri, P. K.**  
Stress distribution in an elastic wedge with mixed boundary conditions 841  
Rectangular plate containing a symmetrical circular hole under tension 4214  
Infinite strip in plane theory of elasticity 6827
- Chauhan, R. S.**  
Couple stresses in a curved bar 2568
- Chaulia, P. B.**  
Stress-freezing in a transversely loaded plate supported at four corners 5349
- Chaves, T.**  
On the numerical solution of two-point boundary-value problems for linear differential equations 3273
- Chawla, A. S.**  
*See* Garg, S. P. 4052
- Chawla, M. M.**  
*See* Jain, M. K. 3297
- Chayanova, E. A.**  
The scattering indicatrix of the atmospheric boundary layer 4943
- Cheatham, J. B. Jr.**  
Analysis of the plastic flow of rock under a lubricated punch 8691  
*See also* Paslay, P. R. 8692
- Cheema, L. S.**  
*See* Chao, B. T. 2215

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Cheers, A. M.**  
See Kelly, R. E. 8133
- Cheeseman, I. C.**  
Circulation-controlled rotor aircraft: An account of the basic principles of circulation control by blowing and its possible applications to the stopped rotor aircraft 3978
- Cheever, D. L.**  
The feasibility of resistance welding in hard vacuum 1144
- Chekalin, E. K.**  
Radiation from a dense plasma generated by an exploded wire in vacuum 3088
- Chelpanov, I. B.**  
See Rozov, Yu. L. 1684
- Chelyshev, V. P.**  
Parameters of an overcompressed detonation wave front 9123
- Chelysheva, I. F.**  
See Bazzhin, A. P. 430
- Chemeris, V. S.**  
On an approximate method of solution to the first fundamental problem of the axisymmetric theory of elasticity 5982
- Chen, B. H.**  
Axial mixing of liquid in a turbulent-bed contactor 2399
- Chen, C. F.**  
Simple method for estimating time from phase trajectories  
Second-order theory for flow past oscillating foils 2916  
See also Kirchner, R. P. 5560  
Shieh, L. -S. 9269
- Chen, C. -I.**  
Nondimensional gradually-varied flow profiles 8833
- Chen, C. P.**  
Experimental study of the turbulent thermal boundary layer in water 2229
- Chen, C. S.**  
Higher order resonances in a magnetoplasma 6565
- Chen, D. C. C.**  
Convective heat transfer in chemically reacting systems 2282
- Chen, F. F.**  
See Kent, G. I. 6563
- Chen, F. Y.**  
On evaluation of natural frequencies for a system of equal inertias and equal spring stiffnesses 978  
An algorithm for computing the contour of a slow speed cam  
Position synthesis of the double-rocker mechanism 2022  
8798
- Chen, H. -H.**  
Some aspects of ship maneuverability 4079
- Chen, K. -C.**  
See Chiu, C. -L. 9636
- Chen, K. K.**  
The laminar boundary layer on a blunted wedge 5538
- Chen, M. C. S.**  
The effect of eccentricity on the terminal velocity of the cylinder in a falling cylinder viscometer 1296
- Chen, M. M.**  
See Hsu, P. T. 179
- Chen, P.**  
A unified theory for the finitely and infinitesimally separated position problems of kinematic synthesis 367  
Design equations for the finitely and infinitesimally separated position synthesis of binary links and combined link chains 368
- Chen, P. J.**  
A note on nonsimple heat conduction 2221  
On the growth and decay of temperature rate waves of arbitrary form 4722
- Chen, R. Y.**  
On transition from supersonic to subsonic flow at low Reynolds numbers in a tube 3696  
Slip flow in the entrance of a tube 7270
- Chen, S. -S.**  
See Lee, P. C. Y. 9442
- Chen, T.**  
See Lee, T. S. 4795
- Chen, T. L.**  
See Durelli, A. J. 303
- Chen, T. S.**  
Asymmetric, coupled transport of heat and mass in a duct 3017
- Chen, W. F.**  
Bearing capacity of concrete blocks or rock 1065  
Methods of computing geometric relations in frames 1132  
Soil mechanics and theorems of limit analysis 2739  
Review of column behavior under biaxial loading 4487  
Plastic indentation of metal blocks by flat punch 9514  
See also Santathadaporn, S. 9570  
Hyland, M. W. 9579
- Chen, W. -K.**  
Unified theory on the generation of trees of a graph: Part 2, the matrix formulation 8414
- Chen, W. T.**  
Axisymmetric stress field around spheroidal inclusions and cavities in a transversely isotropic material 851  
An elastic orthotropic ellipsoid in a centrifugal force field 1035
- Chen, W. Y.**  
See van Atta, C. W. 3756
- Chenchanna, P.**  
A study on interface energy dissipation of a clamped cantilever beam 9465
- Cheng, A. P.**  
Beams on discrete, nonlinear elastic supports 8754
- Cheng, D. C. -H.**  
The effect of pendular moisture on the tensile strength of powders 10003
- Cheng, D. H.**  
Stability of partially embedded foundation piles 4359
- Cheng, D. Y.**  
A novel use of a telescope to photograph metal diaphragm openings 5624
- Cheng, H. K.**  
See Lee, R. S. 2127
- Cheng, K. C.**  
Laminar forced convection in regular polygonal ducts with uniform peripheral heat flux 1324  
See also Nakayama, W. 7293
- Cheng, R. T.**  
Generalized series solutions of the boundary-layer equations 5543
- Cheng, S. C.**  
The prediction of the thermal conductivity of two and three phase solid heterogeneous mixtures 538  
Thermal conductivity of packed beds and powder beds 5640
- Cheng, S. I.**  
See Rimón, Y. 3689  
Allen, J. S. 8058
- Cheng, S. L.**  
Multiple scattering of elastic waves by parallel cylinders 5250
- Cheng, Y. F.**  
An automatic system for scattered-light photoelasticity 2769
- Chepkov, N. V.**  
Automatic device for the impact testing of plastics 4444
- Cheprasov, V. A.**  
Determination of controlling forces in nonlinear systems 5926
- Cherchas, D. B.**  
See Hughes, P. C. 7516
- Cheremisin, F. G.**  
Construction of models of the Boltzmann collision integral 2110
- Cherenkov, A. P.**  
See Popov, P. I. 8460
- Cherepanov, G. P.**  
On crack propagation in solids 5320  
On quasibrittle fracture 6185  
Stress settlement of visco-elastic bodies 9351
- Cherepennikov, I. A.**  
Determination of the thermophysical characteristics of incompressible liquids 2203
- Cherkasov, I. I.**  
Strain on brittle porous materials in a compression setup 316  
Soil-density meter-penetrometer of the automatic lunar station Luna-13 6156
- Cherkasova, A. A.**  
Errors in measurement of functional residual air and the evenness of pulmonary ventilation during work in a closed system 3257
- Cherkasova, K. P.**  
See Polovin, R. V. 3072
- Cherkasskiy, A. Kh.**  
Hydromagnetic cooling of channels 3927

- Cherkesov, L. V.**  
See Fedosenko, V. S. 2934
- Chern, J.-M.**  
Elastic-plastic, work-hardening arches 883  
The enlargement of a hole in a rigid-workhardening disk of nonuniform initial thickness 5135
- Chernashkin, V. G.**  
Determination of the relaxation stability of wire specimens 6235
- Chernikov, Yu. A.**  
Evolution of bounded planetocentric orbits of small bodies under the influence of direct radiation pressure 3986
- Chernilin, Yu. F.**  
Some problems of emergency cooling of the thermal research reactor 3868
- Chernina, V. S.**  
Statika tonkostennykh obolochek vrashcheniya (Statics of thin shells of revolution) 160  
See also Fridman, V. M. 9404
- Chernomordik, L. I.**  
See Kaplan, M. P. 1283
- Chernousko, F. L.**  
Rotational motions of a solid body with a cavity filled with fluid 1276  
Optimum correction under active disturbances 2536  
The motion of a body with a cavity partly filled with a viscous liquid 4655  
A minimax problem of one-time correction with measurement errors 5943  
See also Petrov, V. M. 7341
- Chernova, V. A.**  
See Lyamshv, L. M. 5800
- Chernukha, Yu. A.**  
Effect of nonuniform heating on the stability of a spherical shell in the case of finite flexures and nonsymmetric strain 9145
- Chernyakov, S. M.**  
See Feodoceev, V. I. 2645
- Chernyi, G. I.**  
On rheological relationships of some rocks 6159
- Chernykh, E. M.**  
Wave propagation in an elastic medium with finite deformations 5255
- Chernyshev, A. D.**  
Wedge flows of a viscoplastic medium with nonlinear viscosity 6872
- Chernyshev, G. N.**  
Representation of solutions of the Green type for equations of shells by the small parameter method 6903
- Chernyshev, V. I.**  
See Lezin, V. I. 6799
- Chernyshov, A. D.**  
On propagation of shock waves in an elastoplastic medium 7004
- Chernyshov, V. I.**  
See Popov, V. N. 9777
- Cherpakov, P. V.**  
Regular thermal regime in a multi-layer medium 2218
- Cherry, B. W.**  
Wetting kinetics and the strength of adhesive joints 8011
- Chertock, G.**  
Convergence of iterative solutions to integral equations for sound radiation 9
- Cherveni, V. F.**  
Amplitudes of reflected and head waves in the presence of a stratified overlying rock mass 6115
- Chervinsky, A.**  
Transfer of liquefied natural gas in long insulated pipes 4723  
Transient burning of spherical symmetric fuel droplets 8245
- Chester, W.**  
On the flow past a sphere at low Reynolds number 4546
- Chestnutt, D.**  
Effects of inlet-guide-vane configuration and relative blade velocity on noise from axial-flow compressors 5795
- Chetyrkin, N. S.**  
Determination of stresses in the arch of large underground structures, appearing at the time of excavation of the core 2003
- Cheung, A.**  
See Halley, J. W. 3960
- Cheung, Y. K.**  
The finite element method applied to the solution of heat conduction problems 5643  
See also Zienkiewicz, O. C. 5376
- Cheung, Y. -k.**  
Folded plate structures by finite strip method 8557
- Chey, Y. H.**  
The consistent second-order wave theory and its application to a submerged spheroid 9188
- Chi, S. W.**  
Effective viscosity in a turbulent boundary layer 5546
- Chiang, C. W.**  
Analysis of supersonic conical flows 8879
- Chiang, F. -P.**  
Determination of signs in moire method 3565
- Chiang, F. -p.**  
Techniques of optical spatial filtering applied to the processing of moire-fringe patterns 8736
- Chiang, T.**  
Spherical squeeze-film hybrid bearing with small steady-state radial displacement 2439  
Analysis of pulsating flows in infinite and finite conical nozzles 3722
- Chiba, T.**  
Outdoor design conditions for air conditioning load estimation 7439
- Chichinadze, V. K.**  
The  $\Phi$ -transform for solving linear and nonlinear programming problems 4189
- Chien, K.-Y.**  
Radiation dominant interaction in gas dynamics 6498
- Chigler, N. A.**  
See Mellor, R. 9957
- Chikina, V. G.**  
See Khasin, G. A. 1915
- Childs, A. G.**  
Analysis of maximum range trajectories for rocket-propelled lunar flying vehicles in a uniform gravitational field 1465  
A method for computing extremal maximum-range thrust-limited rocket trajectories with application to lunar transport 9915
- Childs, D.**  
Simulation models for flexible spinning bodies 1692
- Childs, T. H. C.**  
Interfacial adhesion and frictional anisotropy in the sliding of diamond cones on magnesium oxide 1572
- Chin, J. H.**  
Radiation transport for stagnation flows including effects of lines and ablation layer 3894
- Chin, L. L.-J.**  
A model for toughness studies of welds 4389
- Chincholle, L.**  
Dynamics of bubbles in liquids: Part 1, Theoretical study of bubble motion. The rocket effect. Pebullon 705  
Flow study of liquids containing bubbles: Part 2, Relation between the "rocket effect" and cavitation erosion 706  
Fusion effect and the mechanical erosion of cavitation 4550  
The visual observation of relative flow in rotating machines: The rotoscope 8962
- Chinenkov, Yu. V.**  
See Krakovskii, M. B. 931  
Bartenev, V. S. 7763
- Chinn, H. W.**  
See Illingworth, J. K. B. 3980
- Chiranjivi, C.**  
See Venkata Apparao, K. 2268
- Chiras, A. A.**  
On the general formulation of problems of the rational designing of elastic-plastic one-dimensional systems 9575  
See also Borkauskas, A. E. 8559  
Chizhas, A. P. 9574
- Chirila, J.**  
Ship model correlation procedure: Part 1, 736
- Chirkin, N. B.**  
See Pereverzev, D. A. 8254
- Chirkov, A. I.**  
See Artamonov, A. Ya. 3536
- Chiroiu, V.**  
See Rautu, S. 7101  
Rautu, S. 9573

- Chistyakov, V. S.  
See Preobrazhenskii, V. P. 534
- Chitale, S. V.  
River channel patterns 8829
- Chiu, C.-L.  
Stochastic hydrodynamics of sediment transport 9636
- Chiu, H. H.  
Theory of irreducible operators of linear systems 5
- Chiu, S. C.  
See Case, K. M. 3744
- Chiu, Y. P.  
On the contact problem of cylinders containing a shallow longitudinal surface depression 6850
- Chizhas, A. P.  
Kinematic formulation of the problem of calculating elastic-plastic systems, taking into account the limitation of the strains 9574  
See also Chiras, A. A. 9575
- Chizhik, A. A.  
The established creep and stress relaxations in cylindrical springs with a compact coil of rectangular cross section 4243
- Chmielniak, T.  
A problem of temperature distribution in a rod with stochastic heat sources 5644  
See also Tylikowski, A. 1505
- Cho, S. H.  
Heat-conduction problems with melting or freezing 5681
- Cho, S. M.  
Oscillation of a gas bubble in an infinite fluid 3881
- Cho, Y.-S.  
See Narendra, K. S. 5928
- Chobanian, K. C.  
On the plane deformation state of the elastic body with a thin-walled flexible inclusion 105
- Chobanian, K. S.  
The general solutions of the problem of finite deformations for extension, inflation and torsion of composite cylindrical tubes 838
- Cholnoky, T.  
Further development of Mohr's tensor representation 3348
- Chon, W. Y.  
See Wong, S. W. 8220
- Chonan, S.  
See Saito, H. 4292
- Choo, Y.  
See Casarella, M. J. 443
- Chopra, O. K.  
See Srinivasan, P. 4299
- Choquet-Bruhat, Y.  
Asymptotic and approximated waves for systems of nonlinear partial differential equations 5898
- Chorin, A. J.  
On the convergence of discrete approximations to the Navier-Stokes equations 424
- Chou, P. C.  
See Koenig, H. A. 919
- Chou, S.-C.  
Stress-wave propagation in a class of nonhomogeneous elastic media 5274
- Chou, S. I.  
Bonded elastic mounts under combined loading of shear and normal forces 2560
- Choudhary, R. C.  
See Singh, S. S. 5537
- Choudhuri, G. C.  
Generation of linear cyclic binary arrays 3310
- Chow, C. L.  
Explicit heat conduction equations at thermally insulated surface 1612
- Chow, C.-Y.  
Effect of angular inertia of lubricant in MHD hydrostatic thrust bearings 1578  
Swirling flow in tubes of non-uniform cross sections 4559
- Chow, E. G. W.  
On the stress-strain relations for all crystal systems 5080
- Chow, J. C. F.  
Wave propagation in a viscous incompressible fluid contained in flexible viscoelastic tubes 1275
- Chrapan, J.  
One-dimensional oscillator with a quadratic characteristic 3440
- Christensen, H. D.  
See Blacketter, D. O. 5994
- Christenson, H. H.  
See Lewis, J. P. 3880
- Christian, B. H.  
Multiphase aspects of concrete drying shrinkage 2794
- Christiano, P. P.  
Horizontally curved bridges subject to moving load 3609  
See also Culver, C. G. 2805
- Christiansen, J.  
Numerical solution of ordinary simultaneous differential equations of the first-order using a method for automatic step change 8444
- Christiansen, W. H.  
Measurements of flow uniformity in shock tubes operating at low initial pressure 7380
- Christie, L. A.  
See Konar, A. F. 803
- Christopher, P. R.  
A discourse on factors which control fatigue behavior in high yield low alloy steel structures 4403
- Christow, C. K.  
A new graphpaper for the rapid evaluation of shear box test 2741
- Chu, C.-W.  
On the impingement of a supersonic jet on a flat plate 445
- Chu, H. P.  
Stress corrosion testing of 7079-T6 aluminum alloy in seawater using smooth and precracked specimens 4421
- Chu, K.-h.  
See Costello, J. F. 2790
- Chu, K.-Y.  
Iteration process for approximate determination of multi-field orthotropic plates with profiles weak in torsion 1768
- Chu, T. K.  
Temperature measurement of an alkali metal-seeded plasma in an electric field 1447
- Chu, W. H.  
On MHD flow in a rectangular duct of arbitrary Hartman number 9054  
See also Abramson, H. N. 739
- Chu, W.-H.  
Vibrations of fully submerged cantilever plates in water 1834
- Chu, Y. H.  
See Cox, R. G. 8026
- Chuan, R. L.  
See Nelson, L. A. 4601
- Chuang, H.  
Similarity of thermally stratified shear flows in the laboratory and atmosphere 4072  
Turbulent Prandtl number in thermally stratified shear flows of air 6399
- Chuang, S.-L.  
Theoretical investigations on slamming of cone-shaped bodies 9192
- Chubb, D. L.  
Ionizing shock structure in a monoatomic gas 6585
- Chuberkis, V. P.  
Calculation of the error of the statistical characteristics of stationary random processes 2518
- Chudnovskii, F. A.  
Investigation of the heat conductivity of oxide cathode coating 3855
- Chudobiak, J. M.  
On the compression of a simple viscoelastic disk 7716
- Chudov, L. A.  
Notes on the work of N. E. Kochin: Problem of the flow of a viscous fluid past a semi-infinite plate 3726  
See also Markov, A. A. 4593
- Chuich, V. G.  
One approximate algorithm of minimax guidance 8473
- Chui, S. V.  
See Bobolev, V. K. 5719
- Chukanova, T. I.  
Integration of equations for plane isentropic gas motion at supersonic velocities 2877
- Chukin, V. V.  
See Kuznetsov, R. F. 4915
- Chukwujekwu, S. E.  
Experimental investigation of the plastic limit pressures of reinforced openings in cylindrical shells 3613

- Chulkov, P. P.**  
See Grigolyuk, E. I. 5180
- Churaev, N. V.**  
See Nerpin, S. V. 1531
- Church, J. M.**  
See Green, P. S. 5345
- Churchill, S. W.**  
Conduction to an insulated cylinder from a semi-infinite region 9783  
See also Saville, D. A. 8202
- Churkin, V. M.**  
Response of a valve-controlled actuating mechanism with inertial mass loading and a compressive fluid to a sinusoidal input action 59
- Chushkin, P. I.**  
Metod kharakteristik dlya prost-ranstvennykh sverkhzvukovykh tekhnii (Method of characteristics for spatial supersonic streams) 2092
- Chusov, M. A.**  
Investigation of the viscosity of gases based on the law of corresponding states 448  
On the derivation of Grad's hydrodynamic equations: Computation of transport coefficients of an arbitrary order 7279
- Chuvikovski, V. S.**  
See Palii, O. M. 925
- Chuyanov, V. A.**  
See Arsenin, V. V. 4812
- Chyu, W. J.**  
Power- and cross-spectra and space-time correlations of surface fluctuating pressures at Mach numbers between 1.6 and 2.5 2912
- Ciani, S.**  
A thermodynamic analysis of steady state diffusion of counterions and water through a membrane with immobile sites 3178
- Cicala, P.**  
Quasi-cylindrical translation shells 7767
- Cieslowski, D. S.**  
Flutter of a two-degree-of-freedom hydrofoil in two-dimensional subcavitating flow 5758
- Cigan, L.**  
Influence of the main friction factors on the stick-slip in machine-tool guideways 7588
- Cimorelli, L.**  
Experimental determination of the "slip ratio" in a vertical boiling channel, under adiabatic conditions at atmospheric pressure 6332
- Cin, R. D.**  
Erosion and accretion of beaches determined by grain size parameters 9169
- Citakoglu, E.**  
Dropwise condensation: The effect of surface inclination 9017
- Claassen, L.**  
See Rotem, Z. 8203
- Claerbout, J. F.**  
See Landers, T. 6694
- Clamen, A.**  
Effects of turbulence on the drag coefficients of spheres in a supercritical flow 6415
- Clarion, C.**  
Laminar flow of a fluid of variable viscosity in a tube with constant heat exchange at the wall 2050
- Clark, C.**  
On the asymptotic formula for the eigenvalues of membranes and plates 8554
- Clark, E. L.**  
See Trimmer, L. L. 3704
- Clark, J. A.**  
See Goldstein, M. E. 6394  
Tokuda, N. 7455
- Clark, J. W.**  
Structural metals: Aluminum 2806
- Clark, K. E.**  
The magnetoplasma dynamic arcjet 613
- Clark, L. G.**  
See McClamroch, N. H. 6800
- Clark, L. R.**  
See Chestnutt, D. 5795
- Clark, L. V.**  
Experimental investigation of close-range rocket-exhaust impingement on surfaces in a vacuum 8255
- Clark, M. E.**  
See Roller, M. L. 4118
- Clark, R. K.**  
Simulation of pyrolysis-gas flow through a char layer during ablation 1389
- Clark, W. G., Jr.**  
Fatigue precracking of spin-burst toughness specimens 1927
- Clarke, J. M.**  
An investigation of stress redistribution caused by creep in a thick-walled circular cylinder subjected to axial and thermal loading 1511
- Clarke, N. S.**  
The asymptotic effects of surface tension and viscosity on an axially-symmetric free jet of liquid under gravity 2863
- Clarke, R. A.**  
Oceanic flow over varying bottom topography 7574
- Clary, R. R.**  
Measured and predicted longitudinal vibrations of a liquid propellant two-stage launch vehicle 9740
- Claus, W. D., Jr.**  
See Liebowitz, H. 5064
- Clausing, D. P.**  
Crack stability in linear elastic fracture mechanics 2749
- Clauss, F. J.**  
Engineer's guide to high-temperature materials 5638
- Clayton, B. R.**  
Laminar boundary layers over permeable curved surfaces 7308  
See also Massey, B. S. 5539
- Cleary, J.**  
The S velocity at the core-mantle boundary, from observations of diffracted S 1536
- Cleary, J. W.**  
Effects of angle of attack and bluntness on laminar heating-rate distributions of a 15° cone at a Mach number of 10.6 7430  
Approximation for distribution of flow properties in the angle-of-attack plane of conical flows 9654
- Clements, M. S.**  
Research into time ratio in radial flow sedimentation tanks 5464
- Clemm, D. S.**  
See Blanch, G. 3300
- Clerc, D.**  
Utilization of eigenvectors for the selection of essential couplings in flutter calculations 6595
- Clerico, M.**  
A study of the friction and wear of nylon against metal 4964
- Clevenson, S. A.**  
Lunar orbiter flight vibration data and comparisons with environmental specifications 9458
- Clifton, R. J.**  
Elastic-plastic boundaries in combined longitudinal and torsional plastic wave propagation 1879
- Clinch, J. M.**  
Measurements of the wall pressure field at the surface of a smooth-walled pipe containing turbulent water flow 4627
- Cloud, G. L.**  
Mechanical-optical properties of polycarbonate resin and some relations with material structure 8732
- Cloud, R. L.**  
Thermal buckling and frictional effects on postbuckling behavior of sealed electric motor liners 2395  
See also Rodabaugh, E. C. 359
- Clough, N.**  
Dimple, spall, and perforation characteristics of thin plates of nine materials under hypervelocity impact 2754
- Cloughley, T. M. G.**  
See Binnie, A. M. 8379
- Cloutier, G. J.**  
Nutation damper instability on spin-stabilized spacecraft 5770
- Coale, C. W.**  
Axisymmetric vibrations of a cylindrical-hemispherical tank partially filled with a liquid 502
- Coantic, M.**  
See Resch, F. 2179
- Coats, J. D.**  
See Cassanto, J. M. 5515
- Cobble, M. H.**  
The temperature of a plate heated by a source of arbitrary motion and strength 544

- Cobble, M. H.** (*Continued*)  
 Transient thermal stresses in plates having a distributed source and arbitrary time-dependent surroundings 1508  
 Dynamic vibrations and stresses in composite elastic plates 3446
- Cocanower, R. D.**  
 Computerized temperature decay—an asset to temperature logging 8351
- Cochran, J. E.**  
*See Szebehely, V.* 7504
- Cochran, T. H.**  
 Forced-convection boiling near inception in zero gravity 3001  
 Effects of gravity on laminar gas jet diffusion flames 8235
- Cocke, W. J.**  
 Turbulent hydrodynamic line stretching: Consequences of isotropy 6396
- Coder, D. W.**  
 Hydrodynamic loading and cavitation on fixed and rotating struts of 25 per cent thickness 5461
- Coe, H. H.**  
 Cooling requirements of ball bearings lubricated by glass-fiber-filled polytetrafluoroethylene retainers in cold hydrogen gas 6732
- Coeling, K. J.**  
 Incipient and nucleate boiling of liquid hydrogen 4746
- Coffield, R. D., Jr.**  
 A subcooled DNB investigation of Freon-113 and its similarity to subcooled water DNB data 9828
- Coffman, C. V.**  
 On a class of non-linear elliptic boundary value problems 6757
- Coggan, G. C.**  
 The design of gas absorbers with heat effects: Part 1, A general program for adiabatic plate absorbers 5697
- Coghlan, W. A.**  
*See Nix, W. D.* 894
- Cogley, A. C.**  
 Application to radiative acoustics of Whitham's method for the analysis of non-equilibrium wave phenomena 9133  
 Radiatively driven acoustic waves independent of the substitute-kernel approximation 9816  
*See also Gilles, S. E.* 3873
- Cohen, B. M.**  
 Heat transfer by conduction and radiation with temperature-dependent thermal conductivity 3857
- Cohen, E. W.**  
*See Rogers, P.* 5415
- Cohen, G. A.**  
 Buckling of clamped and simply supported shallow spherical shells 5202
- Cohen, H.**  
 A direct nonlinear theory of elastic membranes 6881
- On a nonlinear theory of elastic shells 7768
- Cohen, I. M.**  
*See Cohen, L. G.* 6558
- Cohen, L. G.**  
 On the structure of the boundary layer separating a neutral anisotropic plasma from a magnetic field 6558
- Cohen, L. J.**  
*See Peck, J. C.* 6120
- Cohen, N. S.**  
 Combustion consideration in fuel-rich propellant systems 3033
- Cohen, R.**  
*See Gatlley, W. S.* 4880  
*Cadman, R. V.* 6447  
*Cadman, R. V.* 6448
- Cohen, S. E.**  
*See Sproat, W. H.* 7949
- Cohn, M. Z.**  
 An introduction to structural optimization: Study no. 1 1980  
 Safety, serviceability and efficiency of limit design for reinforced concrete beams and frames 5381
- Coin, A.**  
 Matrix analysis of the equilibrium of a membrane using the method of finite elements 6029  
 Intrinsic equations of a solid with mean line 8550  
 General equilibrium equations for a thin shell 9380
- Colangelo, V. J.**  
 Corrosion fatigue in surgical implants 4985
- Colao, A.**  
*See Becker, H.* 1947
- Colbourne, J. R.**  
 Approximate roots of Flugge's characteristic equation for the closed cylindrical shell 1782
- Cole, J. D.**  
 Acoustic-gravity waves from an energy source at the ground in an isothermal atmosphere 6709  
*See also Bluman, G. W.* 7406
- Cole, R. T.**  
*See Simitsis, G. J.* 181
- Coleburn, N. L.**  
 Anomalous effect of temperature on shock-wave propagation in Cu-Zn 3501
- Colladay, R. S.**  
*See Esgar, J. B.* 9850
- Collas, P.**  
*See Cottis, M. G.* 6108
- Collatz, L.**  
 On the numerical treatment of the rational Chebyshev approximation for several independent variables 3305
- Collier, E. L.**  
 Resistive wall EGD channel 1441
- Collings, B. C.**  
*See Bennett, E. W.* 7123
- Collins, I. F.**  
 The upper bound theorem for rigid/plastic solids generalized to include Coulomb friction 6167
- Collins, I. K.**  
*See Stallings, R. L., Jr.* 6412
- Collins, J. D.**  
 The eigenvalue problem for structural systems with statistical properties 7614
- Collins, J. H.**  
 Measurements of magnetoelastic constants by microwave techniques 1446
- Collins, P.**  
*See King, G. J. W.* 1529
- Collins, R.**  
 A second approximation for the velocity of a large gas bubble rising in an infinite liquid 6679
- Collins, R. E.**  
 A mathematical analysis of mechanical factors in the forced expiration 3256  
 Statistical basis of physical laws 3290
- Colombo, G.**  
 On a family of periodic orbits of the restricted three-body problem and the question of the gaps in the asteroid belt and in Saturn's rings 7505
- Colwell, G. T.**  
 Low density nozzle flow 7277
- Colwell, J. H.**  
 The performance of a mechanical heat switch at low temperatures 2209
- Commerford, G. L.**  
 Uniaxial-strain wave-propagation experiments using shock-tube loading 6121
- Como, M.**  
 Strain hardening plasticity with Bauschinger effect 5111  
 A basis for the linear theory of elastic stability of structures 6916
- Compard, D.**  
*See Dorey, J.* 3081
- Compton, D. L.**  
*See Cogley, A. C.* 9816
- Compton, H. R.**  
*See Gapcynski, J. P.* 6608
- Comstock, C.**  
 On the limit cycles of  $\ddot{y} - \mu \sin \dot{y} + y = 0$  4287  
 Boundary layers for almost characteristic boundaries 5540
- Comstock, T. R.**  
 Application of controlled mechanical impedance for reducing machine tool vibrations 8624
- Comte-Bellot, G.**  
 Harmonics created by parametric excitation in hot wire anemometers of constant intensity 9701
- Concus, P.**  
 On the behavior of a capillary surface in a wedge 3784
- Condiff, D. W.**  
 On symmetric multicomponent diffusion coefficients 8180

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Conine, W. D.  
See Bertin, J. J. 9028
- Connell, G. M.  
Asymptotic stability of second-order linear systems with semi-definite damping 4168  
Equilibrium attitude error of gravity gradient satellites 9109
- Connolly, R.  
Determining the normal stiffness of joint faces 1148  
The mechanics of continuous chip formation in orthogonal cutting 7892
- Connor, J.  
See Brebbia, C. 2782
- Connor, J. J., Jr.  
Nonlinear analysis of elastic framed structures 1129
- Connors, M. M.  
Controllability of discrete, linear random dynamical systems 802
- Conolly, J. E.  
Sea trials of antipitching fins 8377
- Conoly, B. W.  
See Bom, N. 9466
- Conover, R. A.  
Laminar flow between a rotating disk and a parallel stationary wall with and without radial inflow 6330
- Conroy, D. C.  
See Greenbaum, G. A. 9412
- Conroy, M. F.  
Rigid-plastic analysis of a simply supported circular plate due to dynamic circular loading 5147
- Constantinescu, V. N.  
On the electromagnetic pumping effect in gas lubrication 1577  
A gas bearing generating unit Aplicatii industriale ale lagarelor cu aer (Industrial applications of gas bearings) 4105  
Lubrication in the turbulent regime 6728  
10008
- Constantinescu-Catunesti, S.  
An explanation of fatigue strength and its correlation to the creep of concrete 3550
- Conti, R.  
Reacting flow as an example of a boundary layer under singular external conditions 9690
- Conway, H. D.  
The relationship between load and penetration for a rigid, flat-ended punch of arbitrary cross section 1703  
Contact stresses in slabs due to round rough indenters 2578  
Axial impact of short cylindrical bars 5257  
Slabs and shafts compressed by circular indenters 7713  
See also Chang, C. S. 101  
Engel, P. A. 2579
- Cook, D. J.  
See Ward, M. A. 5363
- Cook, J. L.  
See Butler, T. D. 3950
- Cook, N. G. W.  
See Wiebols, G. A. 267
- Cook, R. D.  
Some plane quadrilateral "hybrid" finite elements 7639  
Eigenvalue problems with a "mixed" plate element 9446
- Cooke, J. C.  
The drag of infinite swept wings with an addendum 2919  
A model for the aquaplaning of tyres on wet runways 7593  
Laminar boundary-layer calculations compared with measurements by Hummel 9681  
Supersonic laminar boundary layers on cones 9684
- Cooksey, R. A.  
Total computer simulation of a gas producing complex 9266
- Cooley, L. A.  
See Crooker, T. W. 294
- Cooley, M. D. A.  
On the slow motion of two spheres in contact along their line of centers through a viscous fluid 6326
- Cooley, W. L.  
A new design for an impedance pneumograph 759
- Coon, M. D.  
The effect of change of geometry on the rigid-plastic limit load of cylinders 9358
- Cooper, D. H.  
Hertzian contact-stress deformation coefficients 859
- Cooper, L. Y.  
Constant surface heating of a variable conductivity half-space 3850
- Cooper, M. G.  
Thermal contact conductance 3858  
The microlayer and bubble growth in nucleate pool boiling 9819
- Cooper, P. B.  
See Myers, D. E. 7071
- Cope, R. J.  
See Sawko, F. 7979  
Sawko, F. 8758
- Copley, L. G.  
A longitudinal crack in a cylindrical shell under internal pressure 8707
- Coppens, A. B.  
Finite-amplitude standing waves in rigid-walled tubes 5604
- Coppi, B.  
Instabilities due to temperature gradients in complex magnetic field configurations 2309
- Corbin, D. G.  
See Dunkin, J. W. 9487
- Corbly, D. M.  
Accuracy and precision of ultrasonic shear wave flaw measurements as a function of stress on the flaw 7916
- Cordes, G.  
On the radial pressure gradient in the axial gap of a turbine stage with noncylindrical flow passage 1282
- Cordes, H. F.  
An estimate of the melting point of ammonium perchlorate 6477
- Cordiano, H. V.  
Study of residual stresses in linearly varying biaxial-stress fields 6853  
Effect of residual stresses on the low cycle fatigue life of large scale weldments in high strength steel 7904
- Corino, E. R.  
A visual investigation of the wall region in turbulent flow 1243
- Corlett, E. C. B.  
Twin hull ships 6717
- Corrow, C. J.  
See Syniuta, W. D. 8714  
Syniuta, W. D. 8723
- Corrsin, S.  
Fluid line growth in grid-generated isotropic turbulence 4621  
See also Morton, J. B. 6102
- Corten, H. T.  
Toughness of materials 1081
- Cosac, V.  
See Petre, A. 9438
- Cosgrove, G. J.  
Relaxation of a surface scratch by viscous flow 6860
- Cossu, P.  
On circular plates of thickness varying along the radius, subject to nonsymmetrical bending 8558
- Costakis, W. G.  
See Lorenzo, C. F. 7351
- Costello, J. F.  
Failure probabilities of reinforced concrete beams 2790
- Cothran, C. A.  
A study of radiation heat transfer from a cylindrical fin with base surface interaction 8209
- Cotta, G. A.  
See Moses, H. L. 5030
- Cottingham, R. V.  
The design of a digital three-term controller as a turbojet engine speed governor using digital simulation methods: Part I, Digital simulation of the dynamic behavior of a two-spool turbojet engine; Part II, A digital three-term controller as a turbojet engine speed governor 7669
- Cottis, M. G.  
Response of linear structures to classes of pressure fields: Part I, Deterministic nonconvecting fields 6108
- Couch, L. M.  
Flow-field measurements downstream of two protuberances on a flat plate submerged in a turbulent boundary layer at Mach 2.49 and 4.44 2095
- Coughanowr, D. R.  
See Koppel, L. B. 2538
- Counts, J.  
See Akin, J. E. 1029

- Coupry, G.  
Unsteady supersonic flow around a thin circular cylinder 621
- Courbon, J.  
Beam vibrations 7808
- Cowan, K. C.  
See Davison, E. J. 24
- Cowin, S. C.  
Polar fluids 1157  
Singular stress concentrations in plane Cosserat elasticity 6840
- Cowling, P. W.  
Development of a modified cascade thermoelectric heat pump 6467
- Cowper, G. R.  
The shear coefficient: Some experimental evidence 2963  
Static and dynamic applications of a high-precision triangular plate bending element 3392
- Cowperthwaite, M.  
Relationships between incomplete equations of state 2958
- Cox, A. D.  
See Morland, L. W. 5252
- Cox, A. R.  
The fracture of ausformed steels 5319
- Cox, M. D.  
See Bryan, K. 720
- Cox, R. A.  
See Payne, B. W. 7333
- Cox, R. G.  
The deformation of a drop in a general time-dependent fluid flow  
Characteristic pressure distribution in outlet works inlets 423 8026
- Cozma, C.  
See Ionescu, V. 4049
- Cozzarelli, F. A.  
Creep of conical membrane shells under aerodynamic heating and loading 684
- Crabbe, D. R.  
See Christopher, P. R. 4403
- Crabtree, D. L.  
See Warner, C. F. 3882
- Craggs, A.  
See Pretlove, A. J. 9925
- Craggs, J. D.  
See Freeman, R. A. 2885
- Craig, G. B.  
See Rosinger, H. E. 8539
- Craig, H.  
Abyssal carbon and radiocarbon in the Pacific 5850
- Craig, J. I.  
See Horton, W. H. 6045
- Craik, A. D. D.  
The stability of plane Couette flow with viscosity stratification 2869
- Craine, R. E.  
The quasi-transverse constant profile wave in finite elasticity 8646
- Cramer, C. O.  
Load distribution in multiple-bolt tension joints 9620
- Cramer, E. R.  
See Depew, C. A. 6666
- Cramer, S. D.  
Numerical evaluation of models describing non-Newtonian behavior 2041  
Procedure for fitting non-Newtonian viscosity data 2833
- Crandall, S. H.  
The role of damping in vibration theory 8629  
Distribution of maxima in the response of an oscillator to random excitation 8635
- Crane, L. S.  
Development and use of a track quality index 2015
- Crane, R. I.  
A survey of hypersonic near wake studies 5509  
Numerical solutions of hypersonic near-wake flow by the particle-in-cell method 5514
- Crans, W.  
Basic equations for the microscopic theory of plasticity of polycrystalline materials with given texture 6868
- Crapper, G. D.  
Propagation of wave-fronts in wide channels of arbitrary cross section  
Nonlinear capillary waves generated by steep gravity waves 1264 5603
- Crhward, C. B.  
Building damage from expansive steel slag backfill 8677
- Crawford, F. W.  
See Ristic, V. M. 9878
- Crawford, M.  
See Berry, M. R., Jr. 9948
- Crawford, T. S.  
See Mitchell, L. A. 4967
- Crawmer, G. R.  
See Wozney, G. P. 1106
- Creedon, J. E.  
Gas-heating effect on plasma resistivity 4820
- Creer, B. Y.  
See Denery, D. G. 4848
- Creighton, D. L.  
See Benedetti, R. L. 9560
- Cremers, C. J.  
See Singh, S. N. 6557
- Crenwelge, O. E., Jr.  
Free vibrations of ring-and-stringer-stiffened conical shells 994
- Crespo Da Silva, M. R. M.  
Attitude stabilization of a multi-connected-body satellite in orbit around a planet 5772
- Crickmore, M. J.  
Effect of flume width on bed-form characteristics 8842
- Cridland, L.  
A hydrostatic tension test of a brittle material 1110
- Crighton, D. G.  
Real space-time Green's functions applied to plate vibration induced by turbulent flow 5606
- Crisp, R. J.  
A computer survey of the behavior of torispherical drum heads under internal pressure loading: Part I, The elastic analysis; Part II, The elastic-plastic analysis 9599
- Crocco, L.  
See Mitchell, C. E. 3909
- Crochet, M. J.  
Large deformation solutions for an elastic Cosserat surface 93  
A class of simple solids with fading memory 5100  
Some special flows in porous media 6682
- Crocker, M. J.  
The response of a supersonic transport fuselage to boundary layer and to reverberant noise 213  
Damping in plates 1855  
Response of uniform beams to homogeneous, random pressure fields 4291  
Multimode response of panels to normal and to traveling sonic booms 5285  
Sound transmission using statistical energy analysis 6623  
Structural response to sonic booms 8314
- Croll, J. G. A.  
The influence of shape on the stresses in cooling towers 353
- Cromack, D. E.  
See Weetman, R. J. 7369
- Crook, A. W.  
The AEI integral condenser and its embodiment in turbine generator sets of large rating 4773
- Crookall, J. R.  
The performance-envelope concept in the economics of machining 8699
- Crooker, J. O.  
Reticulated space structures 6921
- Crooker, T. W.  
Fatigue-crack propagation and fracture studies of a pressure-vessel steel temper embrittled to stimulate irradiation damage 294  
Corrosion-fatigue crack propagation studies of some new high-strength structural steels 4419
- Crosby, J. R.  
Effect of stress biaxiality on the high-strain fatigue behavior of an aluminum-copper alloy 4404
- Croze, J. G.  
Nonlinear analysis method for circular plates 1759
- Crosley, P. B.  
Dynamic fracture toughness of A533 steel 4449
- Cross, A. K.  
Hypersonic weak-interaction solutions for flow past a very slender axisymmetric body 5510
- Cross, R. C.  
Propagation of compressional and torsional Alfvén waves under identical plasma conditions 4800

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Cross, R. C. (Continued)**  
Compressional Alfvén wave propagation below ion cyclotron frequency 9063
- Crossland, B.**  
See Olubode, J. A. 6014
- Crossley, F. R. E.**  
See Jenkins, E. M., Jr. 2026  
Haas, S. L. 3632
- Crossley, T. R.**  
High-order eigen-problem sensitivity methods: Theory and application to the design of linear dynamical systems 6784
- Crouch, S. L.**  
A note on the stress concentrations at the bottom of a flat-ended borehole 6158
- Crow, S. C.**  
Viscoelastic properties of fine-grained incompressible turbulence 1242  
Distortion of sonic bangs by atmospheric turbulence 1496
- Crowley, B. K.**  
See Glenn, H. D. 9880
- Crowley, J. M.**  
Stabilization of a spatially growing wave by feedback 3077
- Crozier, R. J. M.**  
See Hunter, S. C. 8655
- Cruse, T. A.**  
A direct formulation and numerical solution of the general transient elastodynamic problem, Part I 7701
- Crussard, C.**  
Phenomenological study of flow 9361
- Csaki, F.**  
Limit-cycle analysis of relay control systems 788  
Some questions of the system identification by stochastic signals 7665
- Csanady, G. T.**  
See Krishnappa, G. 3119
- Cselenyi, J.**  
Sizing of screwed perpendicular joints exposed to bending stress within the range of elastic deformations 382
- Cser, G.**  
Examining the suction process of four-stroke diesel engines, foremost with direct injection: Parts I and II 9047
- Csonka, P.**  
On circular-symmetrically loaded thick circular plates 3416  
Paraboloidal shell of revolution, triangular in plan with a circular skylight opening in its center 8564
- Cucka, P.**  
X-ray measurement of strain in quartz particles of whiteware bodies 1965
- Cuenod, M.**  
A discrete-time approach for system analysis 8470
- Cuffel, R. F.**  
Transonic flowfield in a supersonic nozzle with small throat radius of curvature 7233  
See also Back, L. H. 1228  
Back, L. H. 2241  
Back, L. H. 4608
- Culick, F. E. C.**  
An elementary calculation of the combustion of solid propellants 2297  
T-burner data and combustion instability in solid propellant rockets 5718  
Remarks on extinguishment and the response function for a burning solid propellant 9044
- Cullimore, M. S. G.**  
See Spiers, R. 3650
- Cullum, C. D., Jr.**  
See Canon, M. D. 5942
- Cullum, J.**  
Discrete approximations to continuous optimal control problems 5044
- Culotta, S.**  
See Enkehus, K. R. 6473
- Culver, C. G.**  
Static model tests of curved girder bridge 2805  
Natural frequencies of multispan curved beams 7807  
See also McManus, P. F. 1993  
Christiano, P. P. 3609
- Culver, G. G.**  
See McManus, P. F. 2617
- Cummings, A.**  
The transmission loss of finite sized double panels in a random incidence sound field 4022
- Cummings, W. D.**  
See Siscoe, G. L. 8371
- Cumo, M.**  
About the Leidenfrost temperature determination 3861
- Cumpsty, N. A.**  
Crossflow in turbulent boundary layers 5556  
A critical examination of the use of a two-dimensional turbulent profile family to represent three-dimensional boundary layers 5557  
The calculation of three-dimensional turbulent boundary layers: Part IV, Comparison of measurements with calculations on the rear of a swept wing 5558
- Cunanan, W. S.**  
Cavitation damage and the effect of fluid temperature on the performance of an axial-flow pump in liquid sodium 2057  
Effect of fluid temperature on the cavitation performance of a high hub-tip ratio axial flow pump in water to 250°F (394 K) 5616
- Cunningham, D. M.**  
Photoelastometric recording of stress waves 6219  
See also Lewis, J. L. 1863
- Cunningham, H. J.**  
See Navarro Crespo, A. 1249
- Cunningham, R. E.**  
See Fleming, D. P. 4973
- Cuntze, R.**  
Determination of transverse natural frequencies of thin rectangular plates and comparison with Timoshenko's approximation 3450  
Determination of natural frequencies of thin, oblique, isotropic plates 7816
- Currier, J. S.**  
Turbine performance in a gas-bearing Brayton cycle turboalternator 9851  
See also Kruchow, R. 4106
- Currie, I. G.**  
See Mei, V. C. 8106
- Curtis, G. J.**  
An analysis of the regenerative reverberation effects of acoustic feedback in rooms 4020  
The regenerative reverberation effects of acoustic feedback in rooms 4021
- Curzio, G.**  
See Carelli, M. 9754
- Curzon, A. E.**  
A thermodynamic consideration of mechanical equilibrium in the presence of thermally insulating barriers 3840
- Curzon, P. L. V.**  
See Wittrick, W. H. 963
- Cuttler, J. M.**  
See Hetsroni, G. 1181
- Czarnecki, K. R.**  
See Sorrells, R. B., III 2924
- Czeguhn, K.**  
Variability with time of bearing clearance due to temperature and pressure 4972  
See also Kollmann, K. 7595
- Czoboly, E.**  
Proceedings of the third conference on dimensioning and strength calculations 8704
- Czogala, E.**  
See Chmielniak, T. 5644

## D

- DaDeppo, D. A.**  
Sidesway buckling of deep circular arches under a concentrated load 1797  
Nonlinear analysis of buckling and postbuckling behavior of circular arches 6933  
See also Schmidt, R. 5193
- Dadone, A.**  
A method for evaluating the off-design performance of a radial inflow turbine and comparison with experiments 1279
- Dafermos, C. M.**  
Some remarks on Korn's inequality 846
- Dagan, G.**  
Dispersivity tensor for turbulent uniform channel flow 4541
- D'Agostino, S.**  
See Como, M. 5111

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Dahlberg, E.  
A modified criterion of instability of motion 6814
- Dahler, J. S.  
See McCoy, B. J. 3701
- Daiguji, H.  
Theoretical performance investigation of mixed-flow variable-pitch reversible pump-turbines 4661
- Dail, H. W.  
Accurate temperature measurements on a microbalance suspension by inductive coupling 4718
- Dailey, G.  
On an extension of Hill's method for solution of matrix differential equations with periodic coefficients 4140
- Dais, J. L.  
On stress-strain relations for isotropic rigid perfectly plastic solids 2598
- Dalenoot, G. J.  
On the problem of finite partition functions for hydrogen plasmas 9077
- D'Ali, F. S.  
Drawing and extruding: Theoretical and approximate formulas 4380
- Dallos, P.  
Some problems in the measurement of cochlear distortion 2377
- Dally, J. W.  
Application of birefringent coatings to glass-fiber-reinforced plastics 308  
On the fidelity of high-speed photographic systems for dynamic photoelasticity 2768  
See also Riley, W. F. 1959  
Thau, S. A. 2723
- Dalton, C.  
See Heinzer, A. 7219  
Ward, E. G. 8847  
Bozeman, J. D. 9824
- Daly, B. J.  
Numerical study of the effect of surface tension on interface instability 2941
- D'Amato, R.  
See Freeman, D. C., Jr. 1257
- Dammann, H.  
Near anode precursor in front of the electromagnetically driven convergent cylindrical shock waves 6587
- Dancy, D. J.  
See Bodin, H. A. B. 4816
- Daneshyar, H.  
Numerical solution of gas flow through an engine cylinder 1413  
See also Woods, W. A. 9671
- Daniel, I. M.  
See Rowlands, R. E. 1942
- Daniels, J. H.  
Behavior of composite-beam to column joints 8760
- Danielson, D. A.  
Buckling and initial postbuckling behavior of spheroidal shells under pressure 964  
Simplified intrinsic equations for arbitrary elastic shells 8560
- Danilin, A. F.  
See Lovtsov, Yu. I. 7368
- Danilov, V. A.  
See Krasnikov, V. V. 3891
- Danilov, V. L.  
Equations and boundary-value problems in the theory of two-phase filtration flow in a porous medium 8349
- Dannenberg, R. E.  
See Cheng, D. Y. 5624
- Dannenmueller, R. J.  
See Meyers, N. 1313
- Daoud, M. B.  
See Vives, C. 6559
- D'Appolonia, E.  
Dynamic loadings 5297
- Dareing, D. W.  
Longitudinal and angular drill-string vibrations with damping 200  
See also Huang, T. 193  
Huang, T. 194
- Darkhovskii, B. S.  
See Volynets, A. Z. 8467
- Darpenko, G. V.  
See Katsov, K. B. 6204
- Darrieus, G.  
On some elementary aspects of analytical classical mechanics: Application to problems in astronautics 3988
- Das, A.  
Swelling of a rolled-up vortex surface and bursting of the vortex core in the case of a slender wing 4630  
The supersonic wind tunnel for aeronautics and space research at Braunschweig, Germany 8170
- Das, A. K.  
Thermal stresses in a hollow circular cylinder with smooth rigid insulating covers on the curved surfaces 2388  
Effect of couple-stresses on a semi-infinite plate due to Gaussian distribution of load on the bounding surface 3354  
Note on the propagation of wave from spherical cavity 9486
- Das, B. R.  
A note on thermal stresses in a long circular cylinder containing a penny-shaped crack 2386
- Das, G.  
Some two-dimensional mixed boundary-value problems of a semi-infinite mass of sandy soil 1886
- Das, N. C.  
A note on responses of a piezoelectric plate-transducer under prescribed inputs 3470  
A note on the deformation of an inhomogeneous rotating shaft of barium titanate 7751
- Das, P.  
On the performance loss of a linear optimal control system 8478
- Das, P. K.  
A proposed method of accelerated fatigue testing under progressive loading 3575
- Four-girder interconnected bridge decks 8780
- Das, R. N.  
The effect of couple stresses on stress distribution in a thin plate due to the pressure of a rivet on one side of a circular hole 849
- Das, S. C.  
Fracture of rotating hollow shafts 1086
- Das, S. P.  
Steady flow of a viscous liquid in a canal bounded by two porous concentric circular arcs 2866
- Das, T. R.  
Correlations for determining normal boiling point and kinematic viscosity of organic liquids 5635
- Dasarathy, B. V.  
Effect of creep on the vibrations of mechanical systems subjected to random excitation 3475  
On a class of coupled nonlinear systems with two degrees of freedom 4142  
A new approach to the study of systems with periodically varying parameters 4175  
On the synthesis of a class of second order nonlinear differential equations 7618  
A new approach to the study of coupled nonlinear systems 9222  
Analysis of a class of nonlinear systems 9429
- Dasgupta, C. K.  
On the hydromagnetic flow of a viscous liquid between two parallel plates acted upon by different pulses 3066
- Das Gupta, S. P.  
Deductions and uses of incomplete transforms of some special functions 9233
- Dashevskii, M. L.  
Approximate analysis of the accuracy of nonstationary, nonlinear systems, using the method of semi-invariants 3316  
Equations for the semi-invariants of a nonlinear dynamic system 8436
- Dashkov, A. A.  
On-board method of determining the direction of the velocity vector by orientation toward the center of a planet 3987  
See also Bauze, V. R. E. 4854
- Dasibekov, A.  
See Shirinkulov, T. 7012
- Das Talukder, N. K.  
Collapse load of shallow conical shells 6044
- Dat, J.  
See Escande, L. 500
- Dat, R.  
See Periaux, J. 618
- Datta, S.  
Slip flow around a sphere rotating steadily in conducting fluid under transverse magnetic field 5750

- Datta, S. K.**  
An axisymmetric problem of an elastic half-space containing a rigid spherical inclusion 6841  
*See also* Shah, A. H. 7850
- Dattaguru, B.**  
Stress concentration and load diffusion in rectangular panels with constant stress flanges 3356
- Dave, P. C.**  
Mill bend analysis by elastic line integration 6258
- Davenport, E. E.**  
Static longitudinal aerodynamic characteristics of some supersonic decelerator models at Mach numbers of 2.30 and 4.63 4642
- Davey, A.**  
The stability of Poiseuille flow in a pipe 2047  
*See also* Gill, A. E. 1332
- David, M.**  
*See* Cederberg, H. 873
- Davids, N.**  
Radial inertia effects on an ideally plastic circular plate under impulsive axial compression 3496
- Davidson, G. B.**  
*See* Billinton, R. 44
- Davidson, J. F.**  
Report on the I. U. T. A. M. symposium on the flow of fluid-solid mixtures 5462
- Davidson, R. C.**  
Macroscopic quasi-linear theory of the garden-hose instability 9069
- Davies, G. A. O.**  
*See* Rao, K. P. 7773
- Davies, J. D.**  
Analysis of corner supported rectangular slabs 8769
- Davies, L.**  
On the driver-reservoir technique: Part 1, Application to shock and gun tunnels 520  
On the driver-reservoir technique: Part 2, Determination of optimum reservoir size 521  
Influence of reflected shock and boundary-layer interaction on shock-tube flows 5569
- Davies, R. M.**  
Space structures: A study of methods and developments in three-dimensional construction resulting from the International Conference on Space Structures, University of Surrey, Sept. 1966 7103
- Davies, S. R.**  
*See* Fairbairn, D. R. 1984
- Davies, W. D. T.**  
Identification of a multidimensional process 7663
- Davies, W. O.**  
*See* Krause, F. R. 1287
- Davis, C. V.**  
Handbook of applied hydraulics: 3rd edition 8025
- Davis, H. E.**  
*See* Kiusalaas, J. 9472
- Davis, J. G., Jr.**  
Compressive instability and strength of uniaxial filament-reinforced epoxy tubes 5192
- Davis, P. W.**  
*See* McDaniel, W. L., Jr. 7656
- Davis, Q. V.**  
Vibrations of turbine blades measured by means of a laser 4298
- Davis, R. E.**  
The two-dimensional flow of a stratified fluid over an obstacle 491  
Structural behavior of concrete arch culvert 8771
- Davis, R. T.**  
*See* Werle, M. J. 6365
- Davis, S. H.**  
Buoyancy-surface tension instability by the method of energy 9804
- Davis, S. S.**  
The rheological properties of sputum 4983
- Davison, E. J.**  
A computational method for determining the stability region of a second-order nonlinear autonomous system 24  
Application of the describing function technique in a single-loop feedback system with two nonlinearities 46  
The stability of a second-order linear periodic system 1655  
Interaction index for multivariable control systems 7670
- Davison, F. J.**  
Nozzle scaling in isothermal furnace models 6528
- Davletshin, E. Z.**  
*See* Akhmerov, A. F. 5112
- Davydov, B. B.**  
*See* Grechikhin, L. I. 7491
- Davydov, B. L.**  
Statika i dinamika mashin v tipichnykh rezhimakh ekspluatatsii (Statics and dynamics of machines in typical service conditions) 2817
- Davydova, N. A.**  
Dilatometer theory 5287
- Dawoud, R. H.**  
Flexural stresses in rectangular reinforced concrete curved members 7969
- Dawson, P. H.**  
Rolling contact fatigue crack initiation in a 0.3 per cent carbon steel 1934
- Day, W. A.**  
On the conversion of heat into mechanical work 2197  
Useful strain histories in linear viscoelasticity 2586  
On the symmetry of the conductivity tensor and other restrictions in the nonlinear theory of heat conduction 3853
- Dayaratnam, P.**  
Feasibility of full stress design 322
- Dazhin, V. G.**  
Mechanical properties of ferronickel bonded, hardened coatings under various types of laboratory testing 5868
- De, S.**  
Note on radial vibrations of non-homogeneous spherical and cylindrical shells 3459
- Deakin, M. A. B.**  
Erythrocyte distribution in arterial blood flow: Part 1, Basic equations and anisotropic effects; Part 2, The hypotheses of minimal energy dissipation 1586  
Erythrocyte distribution in arterial blood flow: Part 3, Physiological considerations; Part 4, Simplification of the proposed equations 1587  
Erythrocyte distribution in arterial blood flows: Part 5, Flow with minimal energy dissipation 9212
- Dean, R. C., Jr.**  
*See* Runstadler, P. W., Jr. 6357
- Deardorff, J. W.**  
Similarity principles for numerical integrations of neutral barotropic planetary boundary layers and channel flows 1557  
Dependence of air-sea transfer coefficients on bulk stability 2419
- Dearing, J. D.**  
Laminar heat-transfer distributions for a blunted-cone, cone-frustum reentry configuration at Mach 10 547
- DeBarr, A. E.**  
Electrochemical machining 1068
- Debiesse, Y.**  
Comments on combustion processes in situ 3031
- Debnath, L.**  
The ultimate approach to the steady state in the generation of waves on a running stream 1260  
On effect of viscosity on transient wave motions in fluids 1261  
On transient development of surface waves 1265  
An asymptotic treatment of the transient development of axisymmetric surface waves 3783  
Solution of partial differential equations by the Jacobi transform 9228
- de Boer, P. C. T.**  
*See* Hubbard, E. W. 6351
- de Boer, R.**  
Elasto-plastic bending of a plate strip of incompressible material with finite deformations 132  
Physically nonlinear theory of axisymmetrically loaded shells of revolution 8562
- Debreczeni, E.**  
*See* Tarjan, L. 5502
- de Bruijn, A.**  
The sound absorption of an absorbing periodically uneven surface of rectangular profile 3131
- deB. Trotter, F. J.**  
*See* Lock, G. S. H. 545

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- de Buen, O.  
A modification to the subassemblage method of designing unbraced multistory frames 7131
- De Caluwe, M.  
See Dechaene, R. 2775
- De Cesaris, P.  
See Castagna, A. 6264
- Dechaene, R.  
Measurement of transient thermal plastic strains 2775
- Decher, R.  
MHD generator characteristics with insulator wall losses 7494
- De Cock, J.  
See Dechaene, R. 2775
- Dedeoglu, N.  
Model investigations on scavenging and mixture formation in the dual-fuel or gas engine 9048
- Dederichs, P. H.  
Elastic Green's function for anisotropic cubic crystals 8529
- De Donato, O.  
Extension to continua of some minimum theorems in elastoplastic theory 7730
- Deekshatulu, B. L.  
See Murty, I. S. N. 1646  
Murty, I. S. 5208  
Murthy, D. N. P. 7611
- DeFazio, F. G.  
See Martin, C. S. 8830
- de Forge Dedman, A. S.  
Effect of secondary injection on the characteristics of a supersonic parallel diffuser 519
- DeGeer, M. W.  
See Galegar, W. C. 6454
- de Groot, S. R.  
Nonequilibrium thermodynamics  
The Maxwell equations: Nonrelativistic and relativistic derivations from electron theory 6463
- de Hoop, A. T.  
The surface line source problem in elastodynamics 9481
- Deich, M. E.  
Experimental investigation of moisture separation in turbine stages of average divergence  
Sound velocity and decrement of wave attenuation in two-phase media  
Investigating the process of liquid separation from the surfaces of the fixed blading in turbine stages  
Investigation of moisture separation in a turbine stage 9046
- de Jager, E. M.  
Reflection and transmission of plane waves by layered periodic media 5272
- de Josselin de Jong, G.  
Consolidation models consisting of an assembly of viscous elements or a cavity channel network 6132
- De Julio, S.  
A solution for a class of problems of linear system optimization 2533
- de Kazinczy, F.  
Size effect in fatigue of cast steel 1937
- Dekhtyar, B. A.  
Standardizing the rated life of rolling-contact bearings 7998
- Dekhtyar, L. I.  
Determining residual stresses in bi-metallic cylinders and disks 6179
- Dekhtyarev, V. L.  
Problems of thermodynamic analysis of actual cycles in power generating plants 1307
- de Klerk, I.  
See Geertsma, J. 8713
- Dekoninck, C.  
Experimental investigation of the normal dynamic stiffness of metal joints 9619
- de Kozinsky, V.  
Computer calculation of flow profiles in open channels using Massau's method 3672
- Del, G. D.  
Determination of the stressed state of a material in the plastic region by hardness measurements 134
- Delany, M. E.  
Use of plane-wave couplers in determining the pressure sensitivity of condenser microphones  
A note on probe-calibration couplers 6650
- De La Penha, G.  
A note on Love's stress function 92
- Delatycki, O.  
Viscoelastic properties of epoxy-diamine networks 4242
- Delbourgo, R.  
See Lempereur, F. 3028
- de Leiris, H.  
What can the stress analyst expect from fractography  
On the causes of failures of certain governor propeller-shaft 9533
- Delery, J.  
Influence of a sharp pressure variation on a turbulent boundary layer and application to hypersonic air intakes 6381
- Delesques, R.  
Stability of the upright web of a beam with cutouts 2800
- Delhay, J.-M.  
On the general equations of two-phase systems  
Experimental contrivance for the study of two-phase layers water-air 1272
- Delisle, J.  
See Wegrzyn, S. 7664
- Delone, N. L.  
Growth stimulation of certain biological specimens subjected to vertical vibrations 8400
- Del Puglia, A.  
Application of the method of finite differences to the calculation of rectangular plates with mixed boundary conditions, under transverse load 7754
- del Rio, C. J.  
See Durelli, A. J. 1945
- de Malherbe, M. C.  
See Venter, R. D. 8785
- Demchenko, V. S.  
See Novikov, V. K. 5876
- Demchenko, V. V.  
Propagation of high-amplitude waves in a plasma layer 8258
- Demetriades, A.  
Heat transfer effects on supersonic wake transition  
Mean and intermittent flow of a self-preserving plasma jet  
Turbulent mean-flow measurements in a two-dimensional supersonic wake 7234
- Demidenko, I. I.  
Characteristics of a plasma trapped by a transverse magnetic field, Part 2 4821
- Demin, V. G.  
Dvizhenie iskusstvennogo sputnika v nentsentralnom pole tyagoteniya (Motion of an artificial satellite in a non-central gravitational field)  
Motion of an artificial satellite in an eccentric gravitation field 7518
- Demina, N. I.  
Determination of the allowance for the arbitrary yield point for sheet materials working under biaxial tensile load  
Laboratory methods of testing sheet materials for planar tension: Review 6229
- Demokritov, V. N.  
Form optimization for crane beams 2788
- Dempsey, J. R.  
See Cooksey, R. A. 9266
- Demukh, V. I.  
Approximate method of determining the correlation functions of nonlinear dynamic systems 8464
- Demuts, E.  
See Ojalvo, M. 7786
- Demutskii, V. P.  
Electromagnetic excitation of shock waves 5746
- Denardo, B. P.  
See Nysmith, C. R. 1048
- Denery, D. G.  
Evaluation of a pilot describing function method applied to the manual control analysis of a large flexible booster 4848
- Denham, R. N.  
See Kibblewhite, A. C. 4026  
Kibblewhite, A. C. 6640
- Denhard, W. G.  
See Wrigley, W. 5937
- den Hartog, J. P.  
John Orr memorial lecture: Recent cases of mechanical vibration 6964
- Denisov, R. N.  
Analysis of periodic conditions in relay sampled-data systems based on the modified Z-transform method 50

- Denisov, Yu. A.  
Method for determining the critical thickness in the transition of steel to brittle failure 6237
- Denkhaus, H. G.  
See Bieniawski, Z. T. 265
- Denman, E. D.  
An invariant imbedding analysis of wave propagation through multi-layer systems of biological tissue 3243
- Denman, H. H.  
An approximate equivalent linearization technique for nonlinear oscillations 1824  
Evaluation of phase-plane derivatives at singular points 7623  
See also Adelberg, M. L. 7801
- Denn, M. M.  
Optimization by variational methods 5039
- Dennerly, F.  
Current aspects of thermodynamics 7381
- Denny, V. E.  
Nonsimilar solutions for laminar film condensation on a vertical surface 9822
- Denoh, S.  
See Seki, M. 8719
- Dent, J. C.  
The calculation of heat transfer coefficient for condensation of steam on a vibrating vertical tube 7446
- Denzel, P.  
Experimental study of an MHD-generator which uses a noble gas-alkaliplasma as working medium 9084
- Deo, S. G.  
Functional differential inequalities 7628
- Depew, C. A.  
Heat transfer to horizontal gas-solid suspension flows 6666  
Laminar flow heat transfer and pressure drop with freezing at the wall 9011  
See also Shannon, R. L. 4731
- de Pillis, J.  
Linear algebra 762
- DePlomb, E. P.  
See Olfe, D. B. 9009
- Derby, R. W.  
An approximate analysis of a large prestressed concrete cylindrical section 6263
- Deresiewicz, H.  
A note on Hertz's theory of impact 1018
- Derevyanko, N. F.  
Investigating flow of liquids by means of an optical correlation method 4685
- Dergacheva, E. I.  
See Galperin, E. A. 5036
- Derkach, P. Kh.  
Nonsteady flow past a strained surface: Two-dimensional problem 8283
- Derov, A. F.  
Thermal protection of peat soil against freezing 7019
- Derski, W.  
Consolidation displacements produced in elastic porous bodies by fluid sources 6130
- DeRuntz, J. A., Jr.  
The static strength of syntactic foams 4235
- Deryagin, B. V.  
See Yalamov, Yu. I. 5630
- Desai, C. S.  
A rheological model for consolidation of layered soils 9499
- Desai, M. D.  
Limitations of use of penetration-allowable pressure curves for shallow foundations 4346
- Deschamps, G. A.  
See Roubine, E. 9220
- Deshpande, M. M.  
See Patwardhan, A. S. 8681
- Deshpande, S. M.  
The Boltzmann collision integrals for a combination of Maxwellians 525  
See also Marasimha, R. 526
- de Silva, A. R. T.  
A theoretical analysis of creep in fiber reinforced composites 117  
Thermal stresses in fiber reinforced composites 7556
- DeSilva, A. W.  
See Stamper, J. A. 6589
- De Silva, C. N.  
Green's functions in the nonstationary theory of elastic shells On the contact problem of thin elastic shells 8525  
See also Kline, K. A. 3253  
Cohen, H. 6881  
Cohen, H. 7768
- Desoer, C. A.  
Stability of a nonlinear time-invariant feedback system under almost constant inputs 2505  
See also Baker, R. A. 5015
- deSouza, A. A.  
See Wade, G. 665
- Desoyer, K.  
See Heinrich, G. 2431
- deSpautz, J. F.  
Nonlinear differential equations and the terrestrial brachistochrone 3289
- DesRuisseaux, N.  
Freezing of hydraulic systems 6502
- Desvaux, M. P. E.  
Slip lines on pure copper deformed in tension and compression 8542  
See also Charsley, P. 3552
- Detkov, S. P.  
Transmission of radiation of a medium in two-dimensional problems 7437
- Detre, Gy.  
Approximate determination of the ultimate load of reinforced concrete piles in sands 3511
- Deutsch, G. P.  
Pressures on silo walls 9597
- Deutsch, R. V.  
Propagation of magnetohydrodynamic waves in an inhomogeneous plasma 6550
- Deutsch, S.  
Narrowband television pictures for transmission via oceanographic sound waves 9936
- Deveikis, W. D.  
Effects of cone angle, base flare angle, and corner radius on Mach 3.0 aerodynamic characteristics of large-angle cones 4582
- de Vekey, R. C.  
Determining bond strength in fiber-reinforced composites 5361
- de Veubeke, B. F.  
See Kabaila, A. P. 7783  
Kabaila, A. P. 8591
- de Veubeke, B. M. F.  
Large displacement formulations for elastic bodies 6825
- Devoyno, A. N.  
Method of experimental study of unsteady heat transfer in chemically reacting media 2243
- DeVries, K. L.  
Electron paramagnetic resonance measurements of strain induced ozone cracking in rubber 4424  
Uses of electron paramagnetic resonance in studying fracture 7945
- Devyanin, E. A.  
Principles for the construction of an inertial navigation system 7672
- Devyatkov, V. V.  
Realization of finite automata by shift registers 8488
- Dewey, C. F., Jr.  
Exact similar solutions of the laminar boundary-layer equations 3733
- Dewey, J. M.  
Calibration of shock tubes for studying aerodynamic loading 4689
- deWitt, R.  
Differential geometry of a nonlinear continuum theory of dislocations 895
- deWitt, H.  
Numerical results on the forced symmetric vibrations of a tandem V-hydrofoil in regular sea 3224
- DeWitt, H. E.  
See Williams, R. H. 4813
- Dexter, C. B.  
See McGehee, J. R. 2341
- Dey, A. P.  
A rapid method of determining base exchange capacity of soils 7873
- Deych, M. E.  
Calculation of the rate of formation of condensation centers in supercooled vapor 2269
- Deych, M. Ye.  
Study of energy losses in condensation discontinuities and shocks in the flow of wet steam 5668
- Deyst, J. J., Jr.  
Optimal control of a reentry vehicle in the presence of measurement uncertainties 2528
- Dhaliwal, R. S.  
Punch problem for an elastic layer overlying an elastic foundation 8524

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Dhavale, A. T.  
See Soundalgeker, V. M. 3058
- d'Hieres, G. C.  
Measures on a scale model of the mean level divergences in the channel, relative to the geoid 723  
Remarks on the mean level of the free surfaces of a liquid submitted to a periodical oscillation 2163
- Diachenko, V. F.  
A model of continuous medium 3694
- Diaconita, V.  
Elasto-plastic deformation of an orthotropic tube under internal pressure 3374
- Diamond, J. M.  
Extensions of Callendar's equations for platinum resistance thermometry 7400  
Linearization of resistance thermometers and other transducers 8185
- Dianov, D. B.  
Natural frequencies of the radial modes of thin-layered cylindrical shells 8615
- Dibley, J. E.  
Lateral torsional buckling of I-sections in grade 55 steel 7788
- Dicke, R. H.  
Average acceleration of the Earth's rotation and the viscosity of the deep mantle 4061
- Dickerson, J. R.  
Stability of continuous dynamic systems with parametric excitation 1012
- Dickey, R. W.  
The nonlinear string under a vertical force 144
- Dickinson, D. R.  
The rates of evaporation of sprays 3018
- Dickinson, R. E.  
Planetary Rossby waves propagating vertically through weak westerly wind wave guides 725
- Dickinson, S. M.  
Clough-Tocher triangular plate-bending element in vibration 209
- Dickinson, S. O.  
See Aoyagi, K. 4637
- Dickinson, W. R.  
See Hatherton, T. 4916
- Dickmanns, E. D.  
Optimization of flight trajectories by iterative application of the maximum principle (min. H-Method) 9301
- Dickson, P. F.  
See Pearson, R. S. 2239
- Dickson, R. E.  
Optimum rendezvous intercept, and injection 7521
- Didukh, B. I.  
Stress and strain of an inclined soil layer 6135
- Diesinger, W. H.  
On the calculation of the aerodynamic properties of thin supersonic wings 8126
- Diesperov, V. N.  
On the three-dimensional sonic flow of an ideal gas past a body 3699
- Dieterich, J. H.  
Slow finite deformations of viscous solids 2413
- Dietmann, H.  
Calculation of the yield curves of notched bars 8519
- Dietrich, L.  
A note on complete solutions for the plastic bending of notched bars 146  
Limit tension load of axisymmetric bars weakened by series of V-notches 6844
- Dietrich, M. W.  
Rolling-element lubrication with fluorinated polyether at cryogenic temperatures (160° to 410° R) 2438
- Dietze, S.  
Solution of a known linear optimal process from the maximum principle 4194
- Digiacomio, G.  
Residual stresses in high-strength steel weldments and their dimensional stability during welding and stress relieving 1966
- Dijksman, E. A.  
Calculation and construction of the Burmester points for five positions of a moving plane 2824
- Dikeou, J. T.  
Polymerization makes tougher concrete 7120
- Dikinov, Kh. Zh.  
Calculation of the freezing depth of snow-covered soil from a given air temperature 2974
- Dikiy, L. A.  
Concerning the asymptote for the Laplace flow equation for negative values at equivalent depths 5853  
A variational principle in the theory of meteorological-field adaptation 9181
- Dilger, W.  
Study of moment redistribution in continuous plates 155
- Diller, S. V.  
See Metherell, A. F. 7836
- Dillingham, M.  
See Cocanower, R. D. 8351
- Dillon, O. W., Jr.  
A thermodynamic basis of plasticity 5822
- DiMaggio, F.  
See Rand, R. 503
- Dimantha, P. C.  
On the domain of asymptotic stability of nonlinear nonconservative systems 2496
- Dimarogonas, A. D.  
Packing rub effect in rotating machinery: Part 1, A state-of-the-art review 6289
- Dimentberg, M. F.  
An investigation of a nonlinear stochastic system by the method of regulated auto-oscillations 17
- Amplitude-frequency characteristic for a system with randomly varying parameters 9470
- Dimofte, Fl.  
On the influence of some transversal electrical and tangential magnetic fields on gas lubrication 6730  
See Constantinescu, V. N. 1577
- Dimov, G. I.  
Vacuum hydrogen jet from a supersonic nozzle 4594
- Dinca, F.  
Vibratii neliniare si aleatoare (Non-linear and random vibrations) 5207  
Random vibrations in the dynamics of motor vehicles 8636
- Diner, I. Ya.  
Optimal number of errors corrected in digit-by-digit multiple repetition of messages 7686
- Dinh, N. N.  
Some experiments on a supercavitating plane hydrofoil with jet-flap 4083
- Dintenfass, L.  
Internal viscosity of the red cell and a blood viscosity equation 3249  
A coaxial rhombo-spheroid viscometer: A further development of the cone-in-cone viscometer 4127
- Dinu, L.  
The flow of a non-Newtonian fluid through two cylindrical coaxial walls 3663  
On the stability of the flow of a viscous fluid between two rotating coaxial cylinders 5498
- Di Persio, J.  
Observation of dislocations in tellurium by etch figures 3382
- Dippy, J. E.  
See Davis, S. S. 4983
- Di Prima, R. C.  
A completeness theorem for non-self adjoint eigenvalue problems in hydrodynamic stability 4141  
See also Kogelman, S. 7226
- Diringer, P.  
Determination by the method of characteristics of supersonic flows associated with a given pressure law 8061
- Di San Martino, R. C. M.  
See Ghigliazza, R. 747
- Disher, D.  
See Gangi, A. F. 6696
- Di Silvio, G.  
Self-controlled vibration of cylinder in fluid stream 2333
- Diskin, M. H.  
Evaluation of segmented IUH from derivatives 3199
- Distefano, G. P.  
Stability of numerical integration techniques 3304
- Distefano, J. N.  
Stability analysis of a nonlinear viscoelastic column 872

Review Numbers:	1-75	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Ditaranto, R. A.  
Vibratory bending of damped laminated plates 5239
- Di Tommaso, A.  
Bending and twisting of curved beams with tall thin section 6028
- Dittmar, J. H.  
See Cloud, R. L. 2395
- Dixon, J. R.  
See Frost, N. E. 7913
- Dixon, M.  
See Brewer, J. A., III 8805
- Dixon, S. C.  
Flutter, vibration, and buckling of truncated orthotropic conical shells with generalized elastic edge restraint 9094  
Preliminary design procedure for end rings of isotropic conical shells loaded by external pressure 9420  
Flutter boundary for simply supported unstiffened cylinders 9899
- Dizoglu, B.  
Getriebelehre: Band 2, Massbestimmung (Mechanisms: Vol. 2, Design) 3639  
Getriebelehre: Band 3, Dynamik (Mechanisms: Vol. 3, Dynamics) 3640
- Djojdo, B. A.  
Transfer matrices for beams loaded axially and laid on an elastic foundation 3386
- Djojodihardjo, R. H.  
A numerical method for the calculation of nonlinear, unsteady lifting potential flow problems 3758
- Drugach, M. I.  
Investigation of the strength of reinforced cylindrical shells under longitudinal forces 9393
- Dmitrakh, N. D.  
See Panasyuk, V. V. 6846
- Dmitrichenko, S. S.  
Empirical stress-amplitude distributions for calculating cumulative damage 8721
- Dmitriev, S.  
General report on prestressed concrete poles 7972
- Dmitriev, V. N.  
Standard hardness specimens 5368
- Dobbs, E. R.  
See Meredith, D. J. 6645
- Dobbs, M. W.  
Optimization of truss geometry 3589
- Dobryjanskyj, L.  
Some applications of graph theory to the structural analysis of mechanisms 6292
- Dobrzanski, M.  
See Malecki, I. 9136
- Dobson, M. O.  
See Nichols, R. W. 9520
- Doby, R.  
On the elastic stability of Coriolis-coupled oscillations of a rotating disk 6951
- Dodd, C. W.  
Solution of some partial differential equations using state space techniques 4991
- Dodge, F. T.  
Simulated low-gravity sloshing in spherical, ellipsoidal, and cylindrical tanks 9731
- Dodgson, L. K.  
Application of automatic control to a large coal dredger 3330
- Dodin, Yu. S.  
See Brovman, M. Ya. 2799
- Dodoc, P.  
Influence of vibration on machining accuracy in metal turning 6093
- Dodonov, L. D.  
See Aladyev, I. T. 5484
- Dodson, R. O., Jr.  
See Eversman, W. 3447
- Dogmatyrskii, B. A.  
Stress in fiberglass joints and its effect on bearing capacity 8005
- Doig, I. D.  
Transverse tubes as Pitot probes in cylindrical conduits 8964
- Dokainish, M. A.  
See Rawtani, S. 8561  
Rawtani, S. 9443
- Dokkum, R.  
See Endres, W. 7385
- Dokumaci, E.  
See Carnegie, W. 9436
- Dolaptschiew, Bl.  
On the formulation and the applicability of some new forms of the equations of analytical dynamics 831
- Dolby, R. E.  
See Farrar, J. C. M. 5446
- Dolezal, V.  
On general feedback systems containing delays 39  
On general nonlinear and quasilinear unanticipative feedback systems 2497
- Dolfin, E. R.  
See Van der Linden, C. A. M. 2695
- Dolgachev, V. P.  
Motion of distant artificial Earth satellites in the gravitational field of the Earth and Moon 8303
- Dolginov, Sh. Sh.  
Magnetic field investigation with interplanetary station "Venera-4" 7522
- Dolgopolo, V. V.  
See Demchenko, V. V. 8258
- Dolgova, I. I.  
Sound radiation from a boundary layer 9927
- Dolidovich, A. F.  
See Elperin, I. T. 2275
- Dolinina, N. N.  
Functions of special operators and their applications to the theory of creep of nonhomogeneous bodies 6858
- Dolinskiy, A. A.  
Special features of hydrodynamics and mass transfer in bubbling 2405
- Doll, J. R.  
See Gobetz, F. W. 4844
- Dolman, K.  
See Davies, L. 520
- Domanbskii, Z.  
The properties of the stress operator of the potential of a double layer of the static elasticity theory 9332
- Domaschuk, L.  
A study of bulk and shear moduli of a sand 240
- Dombrowskii, R. V.  
Compensation micromanometer with two-liquid differential indicator 3814
- Dombrowski, N.  
The flow characteristics of swirl (centrifugal) spray pressure nozzles with low viscosity liquids 6313
- Dominas, L. V.  
See Gorelov, D. N. 8055
- Domrin, V. I.  
Oscillations of plasma in a constant magnetic and high-frequency electric field 9869
- Donaldson, I. G.  
The flow of steam water mixtures through permeable beds: A simple simulation of a natural undisturbed hydrothermal region 3179
- Donath, W. E.  
Algorithm and average-value bounds for assignment problems 1626
- Donea, J.  
See Massonnet, C. 3435  
Massonnet, C. 6074  
Skaloud, M. 7791
- Dong, S. B.  
Free vibration of laminated orthotropic cylindrical shells 9453
- Donham, R. E.  
Ground and air resonance characteristics of a soft in-plane rigid-rotor system 9103
- Donnelly, R. J.  
See Glaberson, W. I. 9056
- Donohue, J. H.  
Thermoelastic instability of open-section booms 3161
- Dordevic, V. D.  
Thermal boundary layer on slender bodies of revolution 9683
- Dore, B. D.  
Oscillations in a nonhomogeneous viscous fluid 1195  
A contribution to the theory of viscous damping of stratified wave flows 8134  
Mass transport in layer fluid systems 8940
- Dorey, J.  
Plasma sheaths of models in hot-shot wind tunnels 3081
- Dorfman, A. G.  
See Goldshtein, M. N. 8686
- Dorfman, I. Ya.  
On two classes of functions in Hilbert space 7

- Dorfman, L. A.  
Flow of a viscous fluid between a fixed disk and a blown rotating disk 1177  
Flow of a viscous fluid in a cylindrical vessel with a rotating cover 6339
- Doring, H.  
Flow measurement using orifices with flange taps 7175
- Dormer, T., Jr.  
*See* Bergles, A. E. 1360
- Doroshko, S. M.  
Constructional damping in a two-layer circular plate under the action of a centrally-applied concentrated load 4306
- Doroszkiwicz, R. S.  
Application of the photoelastic layer method for a study of three-dimensional contact problems 1946
- Dorri, M. Kh.  
Modeling of an evaporator in a counter-flow steam generator 2261
- Dorschu, K. E.  
*See* Lyttle, J. E. 8008
- Dory, R. A.  
Warm-plasma stabilization of resonant loss-cone instabilities 6562
- Dosanjh, D. S.  
Underexpanded jet noise reduction using radial flow impingement  
Interaction of an advancing shock front with a concentrated heat (entropy) source 7246  
*See also* Asher, J. A. 1207
- Dostatni, M.  
*See* Boissier, A. 9827
- Dougherty, M. T.  
*See* Ackenheil, A. C. 6164
- Doughman, E. L.  
*See* Demetriades, A. 4827
- Douglas, B. C.  
*See* Wagner, C. A. 7517
- Douglas, T. B.  
Conversion of existing calorimetrically determined thermodynamic properties to the basis of the international practical temperature scale of 1968 5628
- Douglas, W. J.  
Bending stiffness of an inflated cylindrical cantilever beam 6821
- Douglas, W. J. M.  
*See* Chen, B. H. 2399
- Douglass, P. M.  
Anisotropy of granites: A reflection of microscopic fabric 6161
- Doukhan, J. C.  
*See* Di Persio, J. 3382
- Douthwaite, R. M.  
Relationship between the hardness, flow stress, and grain size of metals 7098
- Dow, N. F.  
Tubular composite structural elements having zero thermal expansion 6662
- Dowell, E. H.  
Modal equations for the nonlinear flexural vibrations of a cylindrical shell 996  
Nonlinear flutter of curved plates 2330  
Nonlinear theory of unstable plane Poiseuille flow 4575  
Transmission of noise from a turbulent boundary layer through a flexible plate into a closed cavity 8313  
Noise or flutter or both? 9090  
Generalized aerodynamic forces on flexible plates undergoing transient motion 9898
- Dowson, D.  
Side-leakage factors for a rigid cylinder lubricated by an isoviscous fluid 4100
- Doyle, J. M.  
A general solution for strain-gradient elasticity theory 848
- Doyle, L. E.  
Manufacturing processes and materials for engineers: 2nd edition 7886
- Doyle, M. D. C.  
*See* Yahya, S. M. 506
- Dragos, L.  
On the first approximation for the flow in magnetohydrodynamic channels with end effect 593  
On flow of an incompressible conducting fluid bound by an infinite insulating wall 3926
- Dragunkina, N. I.  
Experimental investigation of similarity conditions in the motion of molten metal in an induction furnace 3076
- Drake, D. G.  
*See* Abu-Sitta, A. M. 3786
- Drane, D. A.  
*See* Ruddlesden, F. 1299
- Draper, J. S.  
Rarefaction in under-expanded flows 8077
- Drauglis, E.  
*See* Allen, C. M. 8391
- Drawin, H. W.  
Influence of radiative absorption on the establishment of local thermodynamic equilibrium 7490
- Drazenovic, B.  
The invariance conditions in variable structure systems 5922
- Drazin, P. G.  
Steady two-dimensional flow of fluid of variable density over an obstacle 4544  
*See also* Davey, A. 2047
- Dredge, K. H.  
*See* Lynch, A. J. 3331
- Dreitser, G. A.  
*See* Mikhailov, A. I. 1378  
*See* Kalinin, E. K. 8225
- Dremin, A. N.  
Stability of the detonation front in liquid explosives 3906  
A study on the interruption of detonation due to the channel effect 4860  
*See also* Yakushev, V. V. 3090
- Drescher, A.  
On the influence of stress path upon the mechanical properties of granular material 241  
*See also* Kwaszczynska, K. 2600  
Mroz, Z. 9359
- Dresig, K. F. H.  
Natural frequencies, critical velocities and natural vibrations at transverse vibrations of moving belts with bending stiffness 7830
- Dresner, L.  
Peak overpressure at the foot of a vertical wall facing an air blast 4591
- Drew, W. B.  
An analytical method for determining the melt-layer thickness and regression rates for a hybrid or tribrid rocket motor 9844
- Dring, R. P.  
Hot-wire anemometer calibration for measurements at very low velocity 3809
- Driscoll, G. C., Jr.  
Plastic design of multistory frames by computer 4484
- Drissel, J. C.  
*See* Renard, K. G. 9170
- Drnevich, V. P.  
Dynamic pretraining of dry sand 9494
- Drobota, V.  
The study of the elastic stability of pendular continuous beams for some loadings 2655  
*See also* Voinea, R. 8755
- Drobyszko, B. S.  
Research of waterhammer in hydraulic systems with annular plastic deforming damper 7344
- Drobyshev, Yu. P.  
*See* Vasilev, A. I. 5908
- Dronkers, J. J.  
Tidal computations for rivers, coastal areas, and seas 718
- Dronov, Yu. V.  
Influence of the installation of a grid on the decrease in hydraulic losses in a complex manifold 9053
- Drozd, M. S.  
Improvement of the accuracy in dynamic determinations of steel hardness 3577  
Spring-type hardness testing device with a two-sided tapered indenter 7946
- Drozd, T.  
A method for determining the generalized support reactions of systems with three branches 7952
- Drozdov, Yu. N.  
A new seizure criterion for gear calculations 7996  
Friction and thickness of heavily-loaded oil films 10009
- Drozhdzhin, A. I.  
Some design problems of ultrasonic transducers 4128
- Drucker, D. C.  
*See* Chen, W. F. 1065
- Drummond, W. E.  
*See* Fowler, T. K. 4809

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Drydrozhik, E. I.**  
Critical velocity in two-phase flow 4568
- D'Sa, E. R.**  
Stagnation flow and heat transfer in a zonal magnetic field 8272
- D'Souza, N.**  
See Molder, S. 9657
- Dube, G. S.**  
See Panda, D. 6823
- Dube, S. K.**  
Hydromagnetic flow near an accelerated porous flat plate with variable suction or injection 9866
- Dube, S. N.**  
On the unsteady flow of a viscous incompressible fluid in a channel bounded by two parallel flat plates 8874  
On the temperature distribution in a channel bounded by two confocal elliptic cylinders 8994
- Dube, V. J.**  
Analysis of bi-material circular humidity sensors 5183
- Dubesset, M.**  
Calculation of cavitation due to underwater explosions at small depths 4887
- Dubey, R. N.**  
Bifurcation in elastic-plastic solids in plane stress 4271  
Instabilities in thin elastic-plastic tubes 6866  
See also Ariaratnam, S. T. 7781
- Dubnov, L. V.**  
Channel effect mechanism in the detonation of condensed explosives 5785  
Parameters of a shockwave from the explosion of sheet charges at short distances 5787
- Dubout, P.**  
The sound of rain on a steel roof 4016
- Dubovoi, L. V.**  
See Gordienko, V. P. 3085
- Dubovoy, L. V.**  
High-frequency stabilization of rotating plasma cylinder perturbations along a magnetic field 8270
- Dubrovskii, E. N.**  
Adaptive variable-structure automatic control systems with bounded controlling perturbation 8485
- Dubuc, J.**  
Effect of mean stress and of mean strain in low-cycle fatigue of A-517 and A-201 steels 8716  
Effect of creep in low-cycle fatigue of pressure vessel steel 8717
- Duckett, R. J.**  
Free-stream electron concentration in an arc-heated wind tunnel and correlation of Langmuir probe and microwave interferometer measurements 3964
- Dudchenko-Dudko, V. M.**  
Design of a logical device for search organization 825
- Dudderar, T. D.**  
The effect of grip stresses on the occurrence of failure in tension tests of wire 9558
- Dudrov, I. G.**  
See Kortnev, V. V. 4753
- Dudintseva, I. L.**  
See Goldshtein, M. N. 8686
- Dudkin, V. E.**  
Measurement of the proton and neutron spectra in the "cosmos" series satellites 5775
- Duel, M. A.**  
See Gorelik, A. Kh. 579
- Duffey, D.**  
An energetic model for rapid mixing 428
- Duffin, J. H.**  
Model of heat transfer in molten flowing glass 9792
- Duffin, R. J.**  
Algorithms for classical stability problems 1634  
See also Anderson, W. N., Jr. 4138
- Duffy, J.**  
Limit positions of four-link spatial mechanisms: Part I, Mechanisms having revolute and cylindric pairs 7158  
See also Gilmartin, M. J. 7159
- Dugan, D. W.**  
The role of staged space propulsion systems in interplanetary missions 8299
- Dugdale, D. S.**  
Discrete frequency noise from free running circular saws 6629
- Duggan, A. P.**  
Torsional vibrations of pretwisted cantilever beams 4289
- Dulacska, E.**  
Vibration and stability of anisotropic shallow shells 3457
- Dulnev, G. N.**  
See Volodin, Yu. G. 1338
- Dulnev, R. A.**  
Creep in the case of cyclic loading and heating 119  
Resistance of refractory alloys to thermal fatigue in dependence on the form of the temperature cycle 689  
See also Bychkov, N. G. 6659
- Dumbleton, J. H.**  
Capillary stability of a hollow inviscid cylinder 9730
- Dumery, G.**  
See Filippi, P. 6634
- Dumesnil, C. E.**  
Collapse loads of partially loaded clamped shallow spherical caps 9413
- Dumitrescu, L. Z.**  
The interaction of weak shock waves and two-dimensional obstacles 1209
- Dummer, R. S.**  
See Neu, J. T. 549
- Dunaev, B. B.**  
Analytical method of solving problems of measurement accuracy in the theory of quality control 3329
- Dunaiev, Yu. A.**  
The interaction of a shock wave with a body in the presence of ionization relaxation 5522
- Dunavant, J. C.**  
Exploratory heat-transfer measurements at Mach 10 on a 7.5° total-angle cone downstream of a region of air and helium transpiration cooling 7456
- Duncan, J. M.**  
Slopes in stiff-fissured clays and shales 256
- Duncan, M. E.**  
The effect of a circumferential stiffener on the stress in a pressurized cylindrical shell with a longitudinal crack 5178
- Dundas, P. H.**  
Induction plasma heating: Measurement of gas concentrations, temperatures, and stagnation heads in a binary plasma system 3952
- Dundrova, V.**  
The deformation of a cylindrical shell due to arbitrary load applied along a curve 6046
- Dundurs, J.**  
Analogy between concentrated forces and edge dislocations 113  
Edge dislocation near an inclusion with a slipping interface 6869
- Dunham, J.**  
Experiments towards a circulation-controlled lifting rotor: Part I, Wind tunnel tests 9097  
Experiments towards a circulation-controlled lifting rotor: Part II, A model rotor 9098
- Dunkin, J. W.**  
Deformation of a layered, elastic half-space by uniformly moving line loads 9487
- Dunlap, R.**  
An investigation of the swirling flow in a spinning end-burning rocket 4765
- Dunlop, P.**  
See Duncan, J. M. 256
- Dunn, H. S.**  
Equivalent circuit representation of web conveyance systems 2492
- Dunn, M. G.**  
Experimental study of high-enthalpy shock-tunnel flow: Part 2, Nozzle-flow characteristics 3834  
Measurement of  $O_2^+ + e^-$  dissociative recombination in expanding oxygen flows 9670  
Measurement of electron temperature and number density in shock-tunnel flows: Part 2,  $NO^+ + e^-$  dissociative recombination rate in air 9758
- Dunnett, R. M.**  
Single-particle motion in multiple-cusp magnetic fields 611
- Dunning, R. S.**  
Experimental determination of apparent mass and moment of inertia of a large disk suspended as a pendulum at different air densities 8853

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Dunninger, D. R.**  
The condition for uniqueness of the Dirichlet problem for hyperbolic equations in cylindrical domains 2464
- Duns, C. S.**  
Vertical response of a rigid base to dynamic loading 6958
- Dupuis, G.**  
Refined finite elements in two-dimensional elasticity 6826  
Elastic stability of one-dimensional structures 6917
- Durelli, A. J.**  
Stress concentrations in a rectangular plate with circular perforations along its two bonded edges and subjected to restrained shrinkage 303  
Stresses in a perforated ribbed cylindrical shell subjected to internal pressure 939  
Experimental determination of stresses and displacements in thick-wall cylinders of complicated shape 1945  
Applied stress analysis 3263  
Stress distribution in a stator vane under bending 3561  
Photoelastic study of beams on elastic foundations 6878  
See also Lee, H.-C. 1103
- Durfee, C. D.**  
TVA experience with concrete chimney linings 6265
- Durlach, N. I.**  
Intensity perception: Part I, Preliminary theory of intensity resolution 7609
- Durling, A.**  
See Cuenod, M. 8470
- Durovkin, V. R.**  
Determining the modulus of elasticity in ring-shaped samples 4460
- Durran, D. A.**  
See Grabowsky, W. R. 6590
- Durvasula, S.**  
Natural frequencies of vibration of isotropic flat plates: Part I 3452  
Natural frequencies and modes of clamped skew plates 3453
- Dushin, L. A.**  
Microwave emission from a plasma in an inhomogeneous magnetic field: Part I, Emission at harmonics of the electron cyclotron frequency 1439
- Dussan, E. B. V.**  
Behavior of spherical solid particles released in a laminar boundary layer along a flat plate 2400
- Dusterberry, J. C.**  
See White, M. D. 2490
- Dusza, A.**  
Couple stresses in the discontinuous boundary value problem of an infinite layer 94
- Duszek, M.**  
Plastic analysis of cylindrical sandwich shells at large deflection 942
- Dutheil, J.**  
Column strength: Criteria for the choice of a law of imperfections 957
- Dutko, P.**  
Principles of glued wood construction 378  
Drevene konstrukcie (Wood construction) 5442
- Dutsyak, Z. G.**  
See Babei, Yu. I. 1932
- Dutton, R.**  
A survey of compression creep testing of metals 5367
- Duvall, G. E.**  
Steady shock profile in a one-dimensional lattice 2732  
See also Manvi, R. 237
- Duvaut, G.**  
Phenomena of reflection, refraction, plane uniform wave interaction in nonlinear elastic materials 234
- Duykers, L. R. B.**  
Sound attenuation in liquid-solid mixtures 3137
- Dvorak, F. A.**  
Calculation of turbulent boundary layers on rough surfaces in pressure gradient 2123
- Dvorak, J.**  
An experimental-theoretical analysis of the state of stress in the wall of a circular cylinder subjected to thermal shock 3156
- Dvorcuk, J.**  
Factorization of a polynomial into quadratic factors by Newton method 25
- Dvornichenko, V. V.**  
Influence of fluid compressibility on the sonic velocity in a stream-liquid mixture in the two-phase region 7394
- Dvortsin, V. I.**  
Resistive-transistor threshold element with changeable value of threshold 9292
- Dwarakanath, G. S.**  
See Subramanian, N. R. 7237
- Dwivedi, R. P.**  
On the curvature of magnetic lines behind a hydromagnetic shock in pseudo-stationary flows 9061
- Dwyer, O. E.**  
Slug-flow Nusselt numbers for in-line flow through unbaffled rod bundles 9809  
Heat transfer to liquid metals flowing in-line through unbaffled rod bundles: A review 9810  
See also Hlavac, P. J. 7425
- Dwyer, S. J.**  
See Bower, E. K. 2489
- Dyachenko, B. K.**  
See Bykov, N. N. 3040
- Dyachenko, S. K.**  
See Byalyi, B. I. 8390
- Dyachkov, V. S.**  
Toothed-disk kinematometer for testing kinematic errors of copying machines with a gear ratio of one 4515
- Dyakonov, E. G.**  
On one problem of the network shell theory and its difference analog 6902
- Dyatlov, V. D.**  
See Dubovoy, L. V. 8270
- Dyban, E. P.**  
See Shvets, I. T. 9031
- Dyduch, K.**  
See Oleszkiewicz, S. 7973
- Dye, R. C. F.**  
Vibration amplitudes of compressor blades resulting from scatter in blade natural frequencies 1832
- Dyer, J. R.**  
The development of natural convection in a vertical circular duct 5659
- Dylag, Z.**  
Photoelastic investigation of the pressure exerted by the piston rings against the cylinder lining 4430
- Dylewski, W.**  
Application of Lagrange's equations to the analysis of the phenomenon of flutter of a controlled rocket in supersonic flight 5764
- Dym, C. L.**  
On the time-dependent heat conduction and thermoelastic problems 679  
On the dynamics of a shell in a testing machine 971
- Dymek, F.**  
The axially symmetric boundary-value problem of the three-dimensional theory of elasticity and its application to problems of rock mechanics 5059
- Dymkov, V. I.**  
Periodic states in pulse-frequency systems 70
- Dyne, G.**  
An investigation concerning the motions of a hovercraft in regular head seas 1566
- Dyner, H. B.**  
See Jarvinen, P. O. 9052
- Dyrbye, C.**  
Impact on systems having one degree of freedom 217  
Kontinuerlige, elasto-plastiske bjaelker med gentagne, overkrende belastninger (Continuous elastoplastic beams with repeatedly traversing loads) 9363
- Dysthe, K. B.**  
Force on a small inclusion in a standing acoustic wave 5607
- Dyubyuk (Dubuque), A. F.**  
On the influence function for a problem occurring in determining the wind from the pressure field 8370
- Dzeban, I. P.**  
See Gratsinskiy, V. G. 230

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Dzhafarov, U. K.**  
Some problems of the torsion of machine-parts made from different materials 4227
- Dzhikaev, B. L.**  
Stability characteristics for cavitation flow of liquids in a control valve 3808
- Dzhikiya, K. S.**  
On the problem of circuit control realization in binary pulse counters 9293
- Dzhusupov, K.**  
Simple wave in a conductive medium in a stationary gravitational field 4823  
Rarefaction wave and medium fly-off in a variable gravitational field 6426
- Dzialo, F. J.**  
*See Bellini, P. X.* 8610
- Dzieciak, R.**  
Some applications of the reciprocal theorem for displacements to singular solutions in the theory of consolidation 3184
- Dzung, L. S.**  
Flow research on blading 8146
- Dzygadlo, Z.**  
Instability limits of parametric self-excited vibrations of elastic and aeroelastic systems with travelling waves 3476  
Asymptotic theory of the pressure on a cylindrical shell performing unsteady oscillation in external or internal supersonic flow 9093
- Dzyura, E. A.**  
*See Yanovskii, Yu. G.* 3372
- E**
- Eagles, P. M.**  
Composite series in the Orr-Sommerfeld problem for symmetric channel flow 5477
- Eames, M. C.**  
Steady-state theory of towing cables 2842
- Earles, S. W. E.**  
*See Kadhim, M. J.* 4092
- Earley, G.**  
*See Turner, K. J.* 5584
- Easley, J. T.**  
Buckling of light-gage corrugated metal shear diaphragms 962
- Eason, G.**  
On the indentation of an inhomogeneous plastic solid 878  
Wave propagation in inhomogeneous elastic media, solution in terms of Bessel functions 1046  
Wave propagation in inhomogeneous elastic media: Normal loading of spherical and cylindrical surfaces 8661
- East, L. F.**  
*See Wyatt, L. A.* 3762
- Easter, B. H.**  
An energy storage system 8453
- Eastop, T. D.**  
Applied thermodynamics: For engineering technologists 9763
- Eaton, B. A.**  
Fracture gradient prediction and its application in oilfield operations 7045
- Ebeling, W.**  
Coulomb interaction and ionization equilibrium in partially ionized plasmas 6578
- Eberlein, P. J.**  
Solution to the complex eigenproblem by a norm reducing Jacobi type method 8443
- Echigo, R.**  
Analytical procedure for evaluating the emissivities of  $\text{CO}_2$ - $\text{H}_2\text{O}$  mixtures 557  
Composite heat transfer with thermal radiation in nongray medium: Preliminary Report, On the temperature profiles 2252
- Eck, B. J.**  
*See Novak, G. E.* 2016
- Eckardt, O. W.**  
Strength of materials 902
- Eckelt, W. R.**  
Investigation of low density supersonic jets by means of a molecular beam sampling technique 7283
- Ecker, R.**  
Last LP blades for large steam turbines 3041
- Eckert, E. R. G.**  
Heat transfer bibliography 3856  
Heat transfer bibliography 8191  
*See also Raithby, G. D.* 540  
*Scott, C. J.* 5663
- Eckford, D. J.**  
The influence of elevator movement on the normal accelerations experienced by a transport aircraft in moderate turbulence 9717
- Ede, A. J.**  
Advances in free convection 5666
- Edelen, D. G. B.**  
Non-local variational mechanics: Part 1, Stationarity conditions with one unknown; Part 2, Properties of the non-local Euler-Lagrange operator 3285  
Non-local variational mechanics: Part 3, Linear operators and variational imbedding with one unknown; Part 4, Stationarization with several dependent variables; Part 5, Variational imbedding, adjoint theorems and existence 3286  
Non-local variational mechanics: Part 6, Momentum-energy, invariance and integration; Part 7, Stationarization with constraints 3287  
Protoelastic bodies with large deformation 7693
- Edelman, S.**  
*See Jones, E.* 1501
- Edelman, W. E., Jr.**  
A procedure for producing photoelastic models with rigid inclusions 1949
- Edelstein, W. S.**  
A note on non-uniqueness in linear elasticity theory 845  
The cylinder problem in thermo-viscoelasticity 3159
- Edilyan, M. B.**  
Inquiry about a pinned mechanism with a stop 8810
- Edmister, W. C.**  
A generalized B-W-R equation of state 6472
- Edmondson, H.**  
The burning velocity of methane-air flames inhibited by methyl bromide 9838
- Edse, R.**  
Detonation induction phenomena and flame propagation rates in low temperature hydrogen-oxygen mixtures 7461
- Edwards, A. D.**  
*See Gupta, B. K.* 3571
- Edwards, D. H.**  
The structure of transverse waves in detonations 9120
- Edwards, D. K.**  
Suppression of cellular convection by lateral walls 2982
- Edwards, J.**  
A device for the control of particle size in the La Mer aerosol generator 703
- Edwards, L. R.**  
*See Richards, D. B.* 2206
- Edwards, L. S.**  
*See Flint, A. R.* 7980
- Edwards, M. C.**  
*See Barton, M. E.* 1061
- Edwards, P. R.**  
*See Kirkby, W. T.* 7066
- Edwards, T. C.**  
Properties of pile cushioning materials 1054
- Eeles, E. G.**  
Fatigue properties of materials 1088
- Efimov, I. A.**  
Stability of sandwich cylindrical shells in the elastic and nonelastic regions 5201
- Efimova, I. T.**  
A generalization of Fourier's integral theorem and its application 9231
- Efremov, E. A.**  
Stability of heated sandwich plates with a light filler in a supersonic flow of gas 8288
- Eggenberger, A. J.**  
On magnetohydrodynamic boundary layers 4802
- Egle, D. M.**  
*See Bray, F. M.* 9447  
*Bert, C. W.* 9450
- Egorov, A. I.**  
Optimal processes in distributed parameter systems and certain problems in invariance theory 2542  
*See also Butkovsky, A. G.* 2537

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Egorov, K. E.  
Determination of the standard pressure on the supporting soil under a circular foundation 6145
- Egorov, V. I.  
Laws of thermal fatigue 685  
See also Sobolev, N. D. 9148
- Ehlers, F. E.  
Pressure waves in an accelerated sphere filled with a compressible liquid 5608
- Ehmke, S. M.  
See Osman, M. A. 8242
- Ehrenzweig, P. D.  
A note on coupling integrals for problems of incompressible fluid flow 2083
- Eichblatt, D. L.  
See Moore, R. H. 6605
- Eifler, W.  
See Nijssing, R. 9811
- Eigner, H. D.  
On the description of isothermal or nearly isothermal two-phase flows by means of an equivalent compressible fluid 9649
- Eilers, G. J.  
See Green, P. S. 5345
- Eilers, J. A.  
See Janosi, Z. J. 1056
- Eilon, S.  
An evaluation of alternative inventory control policies 4154
- Eimer, C.  
Mean phase stresses in concrete 114  
On theoretical bases of prestressed cross-section design 7130
- Einstein, H. A.  
See Sakthivadivel, R. 8841
- Eisenberg, A.  
A relation between the relaxation mechanism and the distribution of relaxation times 7719
- Eisenfeld, J.  
Schwarzschild's criterion and a nonlinear eigenvalue problem 4945
- Eisenklam, P.  
See Flint, L. F. 7211
- Eishinskii, A. M.  
Asymptotic behavior of integral curves for a differential equation of second order for  $x \rightarrow 0$  8416
- Eknadisyants, O. K.  
See Ilin, B. I. 664
- Elagin, V. A.  
Determination of the probability characteristics for the time to first attainment of set limits for a random process 799
- Elaraby, M.  
See Ikebe, Y. 6809
- El-Assar, R. J.  
Incompressible turbulent wake of a flat plate 7221
- Elata, C.  
See Poreh, M. 6296  
Rubin, H. 6300
- El-Baroudi, H. M.  
Characterization of settling tanks by eddy diffusion 6321
- El-Beheri, A. M.  
Stress distribution in an extrusion container, found by the sandwich technique 7887
- Elbert, L. S.  
See Ponomarenko, I. F. 1297
- Eldridge, R. H.  
A numerical method for calculating the pressure due to thickness on symmetrical wings at zero incidence in supersonic flow 2922
- Elektrova, L. M.  
See Grossman, O. I. 7948
- Elena, M.-P.  
See Michel, R. 8096
- Eleonskii, V. M.  
On the upper boundary of the propagation velocity of simple waves for the nonlinear wave equation 2164
- Elftman, H.  
Dynamic structure of the human foot 6736
- Eliassen, E.  
On the observed large-scale atmospheric wave motions 9180
- Eliezer, C. J.  
See Werner, A. 1695
- Elkin, A. I.  
See Bartenev, G. M. 4090
- Eller, A.  
Generation of subharmonics of order one-half by bubbles in a sound field 8309
- Ellingsen, T.  
On the nonlinear stability of plane Couette flow 7227
- Elliott, D. J.  
The torsional stiffness of prismatic sandwich beams 7750
- Elliott, D. N.  
Lamellar tearing in multi-pass fillet joints 5327
- Ellis, D. G.  
Cross-sectional area measurements for tendon specimens: A comparison of several methods 755
- Ellis, J.  
The development of a quick-stop device for metal cutting research 6171
- Ellison, E. G.  
A review of the interaction of creep and fatigue 7907
- Ellison, R. J.  
See Affleck, W. S. 8252
- Ellyin, F.  
The effect of yield surfaces on the limit pressure of intersecting shells 2607  
Experimental study of oblique circular cylindrical apertures in plates 9403
- Elmaleh, J.  
See Eilon, S. 4154
- Elms, D. G.  
Shells of revolution with concentrated edge forces 1772
- Elman, O.  
See Huston, R. L. 8144
- Elperin, I. T.  
The effect of velocity pulsations on the interfacial heat transfer and structure of a spouting bed 2275  
Reduction of hydrodynamic drag in pipelines 6308
- Elrod, B. D.  
See Hough, W. W. 3111
- El-Saden, M. R.  
Theory of nonequilibrium thermodynamics with application to the transport processes in a solid 6465
- El-Shirbini, A. A.  
A treatise on the behavior of injected propellants inside a rocket combustion chamber 9843
- Elsnier, J.  
On the application of screens for generating turbulent flow 2145  
Regeneration of hot-wires used in anemometry 3810
- Elsnier, N.  
Thermodynamic and economic analysis of combined power plant steam-gas cycles 4769
- El-Sohby, M. A.  
Elastic behavior of sand 6122
- Elvery, R. H.  
Analysis of shrinkage effects on reinforced concrete structural members 7116
- El-Wakil, M. M.  
See Linehan, J. H. 7447
- Elyasberg, P. E.  
Determination of the trajectory of the flight of a space craft when the distribution law of the measurement errors is unknown 7509
- Emanuel, G.  
Kinetics of complex molecules in aerodynamic flows 5532
- Emelyanov, A. V.  
See Burgvits, A. G. 7599
- Emerson, P. D.  
Techniques for measurement of winding tension in ring twisting 9461
- Emery, A. F.  
Exploratory studies of free-convection heat transfer through an enclosed vertical liquid layer with a vertical baffle 1339  
Use of heavy gases in explosive-driven shock tubes 3831  
Thermal-stress concentration caused by structural discontinuities 5806  
A Green's function for the stress-intensity factors of edge cracks and its application to thermal stresses 5814  
See also MacGregor, R. K. 2235  
England, W. G. 8197
- Emery, V. J.  
Eikonal approximation for nonlinear equations 9221

- Emets, Iu. P.**  
Solution of the problem of current distribution in a magnetohydrodynamic channel with permeable electrodes at tensor character of conductivity of the flowing medium 1420
- Emin, O. N.**  
*See Bykov, N. N.* 3040
- Emrich, W. J.**  
*See McClelland, B.* 7027
- Emura, K.**  
Conversion of explosive sound into seismic waves at the ocean bottom 4923
- Enchev, K. Ts.**  
Some new theorems of kinematic geometry 4521
- Endo, H.**  
Normal stress and shear stress in a viscoelastic liquid under oscillatory shear flow 8021  
*See also Kinbara, T.* 1399
- Endo, K.**  
Plastic strain fatigue of high tensile steel in corrosive media 289  
Fundamental studies on cavitation erosion 2058  
Effects of stress history and corrosive environment on fatigue crack propagation 2761  
Erosion of bearing alloys in oil film 8386
- Endo, M.**  
Flexural vibrations of a ring of rectangular cross section 4303
- Endres, W.**  
Computers in the design of thermal installations 7385
- Enever, K. J.**  
*See Allen, J.* 3671
- Engel, C. D.**  
*See Strehlow, R. A.* 1398
- Engel, P. A.**  
Contact stress analysis for a round body indenting a linearly viscoelastic slab by point matching 2579  
*See also Conway, H. D.* 2578
- Engel, U.**  
Damping and modulus-defect during plastic deformations: Part 3, Investigations of aluminum single crystals 5128
- Engel, Z.**  
Investigations of synchronization and self-synchronization of mechanical vibrators 2698
- Engelund, F.**  
On the buckling of thin arch dams 3264
- Engin, A. E.**  
Vibrations of fluid-filled spherical shells 2173
- England, G. L.**  
Time-dependent stresses in a long thick cylindrical prestressed concrete vessel subjected to sustained temperature crossfall 5823
- England, W. G.**  
Thermal radiation effects on the laminar free convection boundary layer of an absorbing gas 8197
- Englert, G. W.**  
Simulation of the Fokker-Planck equation by random walks of test particles in velocity space with application to magnetic mirror systems 3956
- Engstrom, W. L.**  
*See Kobayashi, A. S.* 277
- Enkehus, K. R.**  
Formulas for the thermodynamic properties of dense nitrogen 6473  
Dense gas phenomena in a free-piston hypersonic wind tunnel 8970
- Enlow, R. L.**  
*See Willmarth, W. W.* 2149
- Ensminger, R. R.**  
Constitutive model evaluation using cylindrical stress wave propagation 6107
- Entov, V. M.**  
*See Barenblatt, G. I.* 4398  
*Barenblatt, G. I.* 6205
- Enyakin, Yu. P.**  
Aerodynamic characteristics of two-flow gas/oil burners 1402
- Epshtein, I. M.**  
Polarographic method of determining oxygen in tissues 1594
- Epshtein, V. L.**  
*See Nisnevich, L. B.* 5051
- Eraslan, A. H.**  
*See LeCroy, R. C.* 2300
- Erdlac, R. J.**  
*See Matusz, J. M.* 4245
- Erdogan, E.**  
Dispersion of matter in magneto-hydrodynamic flow between two parallel plates 9862
- Erdogan, F.**  
Cylindrical and spherical shells with cracks 1786  
Stresses in fiber-reinforced composites with imperfect bonding 5996  
*See also Ozbek, T.* 3363  
*Brown, E. J.* 4905
- Erdogan, M. E.**  
The effect of the dependence of the diffusion coefficient on the concentration of solute on longitudinal dispersion 2068  
Generalized Couette flow of a dipolar fluid between two parallel plates 6301
- Eremenko, A. V.**  
Application of the method of summations to the design of plates with large number of lattice nodes 3397
- Erginsav, A.**  
*See Barlow, A. J.* 2835
- Erian, F. F.**  
Influence of pressure gradient on turbulent flows with asymmetric mean velocity 8118  
*See also Eskinazi, S.* 8915
- Eriksen, J. L.**  
Twisting of liquid crystals by magnetic fields 8257
- Erickson, W. D.**  
Analytical chemical kinetic study of the effect of carbon dioxide and water vapor on hydrogen-air constant-pressure combustion 5709
- Ericsson, L. E.**  
Universal scaling laws for nose bluntness effects on hypersonic unsteady aerodynamics 8066
- Erikson, T. A.**  
Migrational properties for the steady forced vaporization of water 3000
- Eriksson, L. J.**  
*See Higgs, R. W.* 1492
- Eringen, A. C.**  
Stress concentrations in two normally intersecting cylindrical shells subject to internal pressure 1773  
Compatibility conditions of the theory of micromorphic elastic solids 7703  
Micropolar fluids with stretch 8024  
*See also McCarthy, M. F.* 233  
*Parfitt, V. R.* 1873
- Erlicki, M. S.**  
*See Axelrod, Z.* 4156
- Ermakov, A. I.**  
Interaction of an electron beam with a fast magneto-acoustic wave 6584
- Ermilov, Yu. A.**  
Calculation of impulses required for rendezvous of orbiting vehicles in a central Newtonian gravity field 3114
- Ermisch, R.**  
Effect of gaseous environment on the fatigue behavior of high-purity iron under cyclic bending in ultrahigh vacuum 7067
- Ermolaev, N. N.**  
Vibrocompression of soils 6154
- Ermolaev, O. N.**  
*See Balin, V. A.* 5702  
*Balin, V. A.* 9836
- Ermolchik, V. N.**  
*See Kotlyar, I. V.* 4751
- Ermolenko, S. D.**  
Nonlinear theory of small aspect ratio wings 4632
- Ermolev, Yu. M.**  
Methods of solution of nonlinear extremal problems 2532
- Ermolin, E. V.**  
On the problem of two pistons 3711
- Ermolov, I. N.**  
Analysis of the acoustic channel of an oblique probe for an ultrasonic flaw detector 1969
- Eroshenko, E. G.**  
*See Dolginov, Sh. Sh.* 7522
- Eroshenko, V. M.**  
Analysis of the sublimation of solids in a supersonic flow 9025
- Eroshin, V. A.**  
The unsteady motion of a thin wing with trailing vortices 483

- Errera, S. J.**  
See Apparaio, T. V. S. 360
- Ershin, Sh. A.**  
See Vulis, L. A. 3027
- Ershov, N. S.**  
Experimental investigation of the effect of the thermodynamic properties of a liquid on cavitation phenomena 1308
- Ersoy, U.**  
See Uzsoy, S. Z. 3626
- Erteza, A.**  
See Rao, K. R. 9083
- Erygin, A. T.**  
See Serov, V. I. 5026
- Eryukhin, A. V.**  
Reference equipment for reproducing the unit of pressure in the range of  $10^{-3} - 10^{-6}$  N/m<sup>2</sup> 4682
- Esbensen, S.**  
See Bonner, W. D. 7579
- Escande, L.**  
Study of surge tanks containing a lower expansion gallery of circular cross section intervening during opening manipulations 500  
Stability of a hydraulic system comprising headrace and tailrace channels and identical surge tanks 501
- Eschenauer, H.**  
Thermal buckling of panels 8330
- Eschenback, P. W.**  
Optimization of four-bar linkages satisfying four generalized coplanar positions 1139
- Escobal, P. R.**  
Methods of astrodynamics 624  
See also Forster, K. 623
- Esgar, J. B.**  
An analysis of the capabilities and limitations of turbine air cooling methods 9850
- Eshchenko, G. D.**  
A study of the process of cutting with high-speed saws 4384
- Eshel, A.**  
Dynamic behavior of a foil in the presence of a lubricating film 3235
- Eshelby, J. D.**  
The elastic field of a crack extending nonuniformly under general anti-plane loading 1078
- Eshleman, R. L.**  
On the critical speeds of a continuous rotor 8608
- Esin, V. I.**  
Wave processes arising in hydraulic lines when the shut-off valve is actuated 9734
- Eskinazi, S.**  
Principles of fluid mechanics: 2nd edition 5466  
Energy reversal in turbulent flows 8915
- Esquivel, A. L.**  
X-ray diffraction study of residual macrostresses in shot-peened and fatigued 4130 steel 2781
- Essenhigh, R. H.**  
On the inter-influence of classical heterogeneous combustion research and related aerospace problems 570
- Estrada, H., Jr.**  
Forces exerted by ice on ships 737
- Estrin, E. I.**  
Dilatometer for high hydrostatic pressures 1104
- Etingof, M. I.**  
Design and performance of short-base strain gages 7082
- Eto, S.**  
See Terada, K. 3918
- Etoc, P.**  
Design and performance of aluminum-clad steel chimneys 6527
- Eubanks, R. A.**  
See Holzer, S. M. 1815  
Eshleman, R. L. 8608
- Eujen, E.**  
Flow measurement with throttle devices for laminar flow through pipes 6453
- Euler, E. A.**  
Optimal low-thrust rendezvous control 5780
- Euteneuer, G. -A.**  
Initial transient flow in a rotating mug considering the influence of the bottom 426  
Single-stage and multistage Carnot impact diffusers with swirling flow 2837  
Perturbation wavelength measurement at longitudinal curls in laminar boundary layers along concave walls 8094
- Euvrard, D.**  
Asymptotic study of the flow at great distance from a body moving with the speed of sound: Part III, Three-dimensional flow upstream of the shock waves 8056
- Evangelisti, R.**  
See Cimorelli, L. 6332
- Evan-Iwanowski, R. M.**  
See Stevens, K. K. 3477  
Schoepfel, R. A. 6725
- Evans, D. J.**  
The rotationally symmetric flow of a viscous fluid in the presence of an infinite rotating disk with uniform suction 7200
- Evans, F. G.**  
Relation of collagen fiber orientation to some mechanical properties of human cortical bone 5877  
The mechanical properties of bone 7603
- Evans, H. E.**  
The annealing of creep fracture damage in a stainless steel 2753
- Evans, J. T.**  
Strain-rate sensitivity of the lower yield stress of mild steel 3377
- Evans, K. R.**  
See Esquivel, A. L. 2781
- Evans, P. R. V.**  
Fatigue crack growth and sudden fast fracture in a rail steel 9535
- Evans, R. H.**  
The behavior and strength of prestressed concrete and rectangular beams subjected to combined bending and torsion 9585
- Evans, R. M.**  
See Pattee, H. E. 9622
- Evdokimov, V. D.**  
A study of internal stresses produced as a result of lubricated reversing friction 5867  
Investigation of exoelectronic emission of surface layers during sliding friction 7589
- Evdokimov, Yu. A.**  
Antifriction properties of bearing materials 4095
- Everest, J. T.**  
A theoretical and experimental study of the wavemaking of hovercraft of arbitrary planform and angle of yaw 3981
- Everhart, P. E.**  
See Dunavant, J. C. 7456
- Evernden, J. F.**  
Beam-steering of large randomly-spaced long-period arrays 4924
- Evers, K.**  
See Laubli, F. 5939
- Eversman, W.**  
Free vibration of a centrally clamped spinning circular disk 3447
- Evlanov, L. G.**  
An approximate method of estimating the accuracy of nonlinear systems containing random parameters 2502  
Method of analyzing systems containing random parameters: Part 1 5934  
Methods of analyzing dynamic systems containing random parameters: Part 2 5935
- Evrard, R.**  
Absolute micromanometers with diamagnetic levitation 8164
- Evstratova, S. P.**  
See Sobolev, V. L. 3551
- Evtushenko, A. V.**  
See Greshilov, E. M. 6390
- Ewing, D. J., Jr.**  
Reciprocal variational techniques and the solution of optimization problems 815
- Ewing, D. J. F.**  
A mass-flux method for deducing dimensions of plastic slipline fields 879
- Ewoldsen, H. M.**  
Rockbolting of tunnels for structural support: Part 2, Design of rockbolt systems 7049  
See also McNiven, H. D. 7048
- Exley, K. A.**  
Tonal properties of the pianoforte in relation to base bridge mechanical impedance 2679

- Exton, R. J.**  
Application of photographic pyrometry to ablation models 6517
- Eyman, E. D.**  
Direct method of synthesis using a new representation for servo-systems 1641
- Eyre, D. G.**  
Variable repeated loading: A literature survey 1978
- Ezekiel, F. D.**  
See Rosensweig, R. E. 374
- Ezikashvili, O. S.**  
Differential mechanisms with non-circular wheels 3648
- F**
- Fa, S. H.**  
See Cernoch, S. 6531
- Faas, R. W.**  
Analysis of the relationship between acoustic reflectivity and sediment porosity 4056
- Fabric, S. I.**  
See Pfeiffer, E. A. 6747
- Fadeev, G. P.**  
See Kazarnovskii, V. S. 4352
- Fader, W. J.**  
Hydrodynamic model of a spherical plasma produced by Q-spoiled laser irradiation of a solid particle 4818
- Fafurin, A. V.**  
See Mironov, B. P. 9691
- Fahiman, E. J.**  
See Sarofim, A. F. 8336
- Fahy, F. J.**  
Energy flow between oscillators: Special case of point excitation  
See also Mungur, P. 8634 653
- Fain, G.**  
A continuous seismic profiling display system 9964
- Fainer, M. Sh.**  
See Obukhovskii, Ya. A. 3133
- Fairbairn, D. R.**  
Combined bending and torsion in reinforced concrete beams 1984
- Fairhurst, C.**  
See Haimson, B. 4369
- Faison, R. W.**  
Analytical and experimental investigation of end-plane rotations of truncated cones under bending loads 936
- Fajans, B. L.**  
Calculation of rectangular plates, resting on a base with a variable bed coefficient 2630
- Fakan, J. C.**  
Application of modern network theory to analysis of complex systems 789
- Falanga, R. A.**  
An inverse-method solution for radiating, nonadiabatic, equilibrium inviscid flow over a blunt body 8880
- Falarski, M. D.**  
Wind-tunnel investigation of several large-scale all-flexible parawings  
See also Mort, K. W. 6604 2921
- Falb, P. L.**  
See Kalman, R. E. 9267
- Falk, S.**  
Lehrbuch der technischen Mechanik: Zweiter Band, Die Mechanik des starren Körpers 1689  
Lehrbuch der technischen Mechanik: Dritter Band, Die Mechanik des elastischen Körpers (Textbook for technical mechanics: Vol. 3, Mechanics of elastic bodies) 7742
- Falkovich, A. I.**  
Group-invariant solutions of a hydrodynamic model of atmospheric circulation in the equatorial region 1550
- Falkovich, S. V.**  
Spreading of a twisted stream in an infinite space flooded by the same fluid 5491
- Falkovskii, S. V.**  
See Vigak, V. M. 1506
- Fallenstein, G. T.**  
Dynamic mechanical properties of human brain tissue 4113
- Faltus, F.**  
The design of built-up compression bars according to the Czechoslovak Standard CSN 73 1401 1996
- Fam, W. M.**  
See Brandt, G. 3252
- Fan, L. T.**  
See Travnicek, E. A. 1298
- Fanchenko, S. D.**  
Turbulent heating of a plasma in a torus 6574
- Fanelli, M.**  
Measuring internal temperatures in mass concrete: Part 2 2207
- Fang, A. C.**  
Digital simulation of rotational kinematics 1690
- Fang, J. B.**  
Flame spread through randomly packed fuel particles 4763
- Fangmeier, D. D.**  
Solution for gravity flow under a sluice gate 3677
- Fangmeier, R.**  
See Pawelski, O. 5311
- Fanucci, J. B.**  
See Jester, J. L. 1421
- Fan-van-Khap**  
On the application of the method of replacing an integral by a finite sum to the approximate solution of singular integral equations 4994
- Faraponova, G. P.**  
Determining the radiative heat flux in the lower layers of the atmosphere 5856
- Fareed, A.**  
See Dawoud, R. H. 7969
- Farrell, C.**  
See Naudascher, E. 8112
- Fargette, F.**  
Practical method for computer calculation of structures  
See also Coin, A. 7954 8550
- Farison, J. B.**  
Approximation of exponential functions of random variables by statistical linearization 5936
- Farmer, E. D.**  
Stability and noise sensitivity of a digital - analog control system for the automatic loading of a power system 7668
- Farmer, I. W.**  
Engineering properties of rocks 1062
- Farmer, M. G.**  
Flutter studies to determine nacelle aerodynamic effects on a fan-jet transport model for two mount systems and two wind tunnels 9894
- Farnell, G. W.**  
See Lim, T. C. 4329
- Farnham, K. A.**  
See Conway, H. D. 1703  
Conway, H. D. 7713
- Farrar, J. C. M.**  
Lamellar tearing in welded structural steels 5446
- Farrell, J.**  
See Spillers, W. R. 331
- Farrell, J. L.**  
Optimal estimation of rotation-coupled flexural oscillations 8619
- Farrell, R. A.**  
High-temperature specific heat of the Ising model 6459
- Farrington-Wharton, R.**  
See Barrett, M. G. 3621
- Fasano, A.**  
A study of the temperature distribution in a homogeneous spherical container in translation on an assigned orbit and with discontinuous boundary conditions 6497
- Fasol, K. H.**  
On the simplified analysis of relay control systems 5925
- Fatkhullaeva, Z. N.**  
See Musaelyan, Sh. A. 4939
- Faughn, J.**  
See Shields, F. D. 6641
- Faure, J.**  
Heat transfer between pipes and heavy water in a nuclear reactor 8198
- Fauske, H. K.**  
See Grolmes, M. A. 8138
- Favreau, R. F.**  
Generation of strain waves in rock by an explosion in a spherical cavity 1903
- Fay, A.**  
See Varga, J. J. 4679
- Fazekas, G. A.**  
The offset torsion bar 7743
- Fear, J. S.**  
Performance of a turbojet combustor using natural gas fuel heated to 1200°F (922°K) 6533

- Fearneough, G. D.  
Application of the crack opening displacement approach to the prediction of pressurized tube failure 279
- Fedorchenko, A. M.  
See Kotsarenko, N. Ya. 3930
- Fedorchenko, I. M.  
Effect of working media on friction and wear of iron-base composite materials 4966  
See also Pushkarev, V. V. 4096
- Fedorchenko, V. D.  
Interaction of ion cyclotron waves with high-frequency plasma oscillations 606
- Fedorenko, V. I.  
See Fedorov, V. I. 5722
- Fedorov, A. V.  
Frequency-regulated servodrive on a two-phase motor with relay readjustment of generator frequency 6811
- Fedorov, M. I.  
See Kafengauz, N. L. 8222
- Fedorov, V. I.  
Modelling and analysis of the dynamic processes of a high capacity turbine 5722
- Fedorov, V. K.  
See Leontev, A. I. 8193
- Fedorovich, V. A.  
Methods of testing thin-leaf spring alloys for creep 7096
- Fedosenko, V. S.  
Internal waves from submarine earthquakes 2934
- Fedotkin, I. M.  
Heat transfer rates along a surface wetted by a thin liquid film 9825
- Fedyavskii, K. K.  
See Blyumina, L. Kh. 9096
- Feher, E. G.  
The supercritical thermodynamic power cycle 6466
- Fehr, U.  
Ultralow frequency waves generated by the Saturn F-1 engine 4868
- Feigin, M. I.  
Constructing the stability domain in the parameter space of a dynamic system 2510
- Feihl, J.  
Determination of the efficiency of hydraulic transmissions by means of a calorimetric measurement of the power loss 9782
- Feilbach, W. H.  
Analysis of rod shaving and orthogonal cutting 1913
- Fein, R. S.  
See Ling, F. F. 4104
- Feingold, A.  
New analytical approach to the evaluation of configuration factors in radiation from spheres and infinitely long cylinders 9005
- Feistel, T. W.  
An investigation of a direct side-force maneuvering system on a deflected jet VTOL aircraft 1304
- Feit, D.  
See Junger, M. C. 2943
- Fejer, A. A.  
See Lavan, Z. 8864
- Fejer, J. A.  
The growth and decay of resonant plasma oscillations excited by a small pulsed dipole 2304
- Feke, G. T.  
Low-frequency sound velocity in CO<sub>2</sub> near the critical point 9771
- Feldman, H. R.  
Nearly spherical acoustic lenses 2381
- Feldmann, J. W.  
Numerical treatment of mixed boundary value problems in two-dimensional elastostatics 82
- Feldt, W. T.  
Instability of a mechanical system induced by an impinging fluid jet 5759
- Feller, W. V.  
See Jones, R. A. 3739
- Felsen, I. M.  
See Schatzberg, P. 7600
- Felsing, G. W.  
Coanda flow over a circular cylinder with injection normal to the surface 1248
- Feltham, P.  
The flow stress of body-centred cubic metals at low temperature 5123
- Felton, L. P.  
See Dobbs, M. W. 3589  
See Hofmeister, L. D. 5176
- Fendell, F.  
Near-equilibrium decomposition burning of monopropellant droplets in a stagnant atmosphere 1409
- Fendell, F. E.  
Decompositional burning of a droplet in a small Peclet number flow 2262
- Feng, G. C.  
Approximate analysis of elastic stress distribution in thin strip material 5058
- Fenn, D. B.  
See Gutierrez, O. A. 7450
- Fenster, S. K.  
See Arthur, W. 76
- Fenves, S. J.  
See Morris, G. A. 877  
See Lagerquist, D. R. 1974  
See Morris, G. A. 9569
- Feodosov, V. I.  
On equilibrium modes of a rubber spherical shell under internal pressure 949
- On the transmission of concentrated forces on a thin-walled shell Axisymmetric elastic properties of a spherical shell 2645
- 8565
- Ferencz, Cs.  
Wave propagation in inhomogeneous, anisotropic, time-varying medium 5276
- Ferguson, P. M.  
See Liao, H. M. 7117  
See Victor, D. J. 7129
- Ferguson, R. J.  
Comparison of cardiac output determined by CO<sub>2</sub> rebreathing and dye-dilution methods 3254
- Fernandez, F. L.  
Experiments in supersonic turbulent flow with large distributed surface injection 2899
- Fernholz, H.-H.  
Experimental investigation of an incompressible turbulent boundary layer with skin friction close to zero along a circular cylinder with a flow in axial direction 6369
- Ferrarese, G.  
Work of the internal forces and isotropy: Part I 8502
- Ferraro, V. C. A.  
An introduction to magneto-fluid mechanics: 2nd edition 5732
- Fetner, M. W.  
See Hunter, P. A. 9721
- Fetter, A. L.  
Transmission and reflection of surface waves by a movable dock 1262
- Fettis, H. E.  
Tables of toroidal harmonics: Part 1, Orders 0-5, all significant degrees A 20-D table of Jacobi's nome and its inverse 2476  
Tables of toroidal harmonics: Part 2, Orders 5-10, all significant degrees 3298  
A table of the complete elliptic integral of the first kind for complex values of the modulus: Parts 1 and 2 5912  
A table of the complete elliptic integral of the first kind for complex values of the modulus: Part III, Auxiliary tables 5913  
Note on the computation of Jacobi's nome and its inverse 9254  
9259
- Feygelson, E. M.  
The influx of long wave radiation in a cloudy atmosphere 732
- Ffowcs Williams, J. E.  
See Crighton, D. G. 5606
- Fichter, W. B.  
Stress concentration around broken filaments in a filament-stiffened sheet 854
- Fichtl, G. H.  
Longitudinal and lateral spectra of turbulence in the atmospheric boundary layer 4069  
Shear layer and jet instability in stratified media 5852
- Fiedler, H. E.  
See Wagnanski, I. 5575  
See Wagnanski, I. 8113
- Fieger, K.  
A simple method of dealing with linear sampled-data control loops 1662

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Fields, J. L.**  
Rational approximations to a class of G-functions 3299
- Fields, R. A.**  
Evaluation of an infrared heating simulation of a Mach 4.63 flight on an X-15 horizontal stabilizer 1303  
A study of the accuracy of a flight-heating simulation and its effect on load measurement 9832
- Fields, R. W.**  
Mechanical properties of the frog sarcolemma 8401
- Fife, P. C.**  
Existence of convective solutions of the generalized Benard problem which are analytic in their norm 8199  
See also Berger, M. S. 6925
- Fil, V. D.**  
Absorption of ultrasound in superconducting aluminum 3143
- Filatov, E. I.**  
See Yaskevich, E. P. 8090
- Filatova, N. A.**  
See Pushkarev, V. V. 4096
- Filep, E.**  
See Kolozsvary, Z. 1573
- Filep, G.**  
See Kolozsvary, Z. 1573
- Filevich, M. I.**  
Protection of steel against hydrogen embrittlement at elevated temperatures 1100
- Filimonov, S. S.**  
Determination of the effective absorptivity of boiler furnace radiant heat-absorbing surfaces 2253  
Combined heat transfer calculations 3869  
Determination of the absorptivity, temperature and thermal resistance of the irradiated surfaces in combustion chambers 7466
- Filimonov, Yu. F.**  
Extruding low plasticity, hollow brass components 3522
- Filipkowski, J.**  
Solution of two-dimensional problems of the theory of thermal stresses 672
- Filippi, P.**  
Theoretical and numerical study of diffraction by a thin screen 6634
- Filippi, S.**  
Explicit Runge-Kutta method for partial hyperbolic differential equations 3279
- Filippov, A. P.**  
Theory of vibrations and problems in dynamics 4288  
See also Marchenko, G. A. 3454
- Filippov, G. A.**  
Investigating the capacity of a turbine moving row to separate water from steam 6537
- Filipszynski, L.**  
Absolute measurements of particle velocity, displacement or intensity of ultrasonic pulses in liquids and solids 5804
- Filmer, D. L.**  
See Cannon, J. R. 4159
- Filotas, L. T.**  
Response of finite wings to sinusoidal gusts or vertical oscillations 9718
- Filshtinskii, L. A.**  
Complete systems of particular solutions in shallow-shell theory 7764
- Finch, R. D.**  
Hole theory of cavitation nucleation 2844
- Findley, W. N.**  
Product form of kernel functions for nonlinear viscoelasticity of PVC under constant rate stressing 6000  
See also Lai, J. S. Y. 3368  
Lai, J. S. Y. 6857
- Fink, F.**  
Ultimate load of rectangle reinforced concrete sections with biaxially eccentric loading 335
- Fink, M. P.**  
Aerodynamic data on large semispan tilting wing with 0.4-diameter chord, single-slotted flap, and single propeller 0.22 chord below wing 485  
Pressure distribution of a large semispan tilting wing with 0.4-diameter-chord, single-slotted flap, and a single propeller 0.22 chord below wing 9708
- Finkelshtein, R. M.**  
See Petrov, V. I. 5231
- Finlayson, B. A.**  
Convective instability by active stress 3839  
The Galerkin method applied to convective instability problems 7421  
See also McConaghy, G. A. 9648
- Finn, R.**  
On the linearized hydrodynamical equations in two-dimensions 2857  
See also Concus, P. 3784
- Finney, J. M.**  
The effect of depth of machining cut on the fatigue properties of unnotched aluminum alloy specimens 6198
- Fintel, M.**  
Effects of column creep and shrinkage in tall structures: Prediction of inelastic column shortening 5387
- Fiore, N. F.**  
Resonance-bar damping measurements by the resonance-buildup technique 2364
- Firisyuk, V. R.**  
See Fedotkin, I. M. 9825
- Firkins, N. L.**  
Steel plate analysis by finite elements 9566
- Firsov, V. A.**  
See Vasilev, V. V. 8006
- Firt, V.**  
Bending and stability of viscoelastic struts and frames 2666
- Firth, B. W.**  
Skating mechanisms 2826
- Firth, I. M.**  
Silicon resistance thermometers for low temperatures 7559
- Fischer, C. F.**  
Properties of some tridiagonal matrices and their application to boundary value problems 2460
- Fischer, G.**  
Dynamic stability of the circular cylindrical shell under axial impact 8597
- Fischer, M. C.**  
Hypersonic boundary-layer transition on ablating and nonablating cones 3738  
An experimental investigation of boundary-layer transition on a  $10^\circ$  half-angle cone at Mach 6.9 7306
- Fischer, O.**  
The effect on a beam of loading random in time and space 2709  
See also Novak, M. 9095
- Fishback, J. F.**  
Relativistic interstellar spaceflight 6619
- Fisher, D. F.**  
See Saltzman, E. J. 7297
- Fisher, F. H.**  
Effect of pressure on ultrasonic absorption, multistate dissociation, and chemical equilibrium in  $\text{MnSO}_4$  solutions 2376
- Fisher, G. P.**  
See Apparao, T. V. S. R. 360
- Fisher, J. W.**  
See Reemsnyder, H. S. 8740  
Daniels, J. H. 8760  
Lee, J. H. 8812
- Fisher, M. J.**  
Turbulence measurements in supersonic, shock-free jets by the optical crossed-beam method 3757
- Fisher, S. S.**  
Properties of low-density freejets measured using molecular-beam techniques 4605
- Fitsner, I. N.**  
Optimal system of search for minimum 4191
- Fitzgerald, J. E.**  
Interaction of a diaphragm pressure gage with a viscoelastic halfspace 9546
- Fitzhugh, H. A.**  
Numerical studies of the laminar boundary layer for Mach numbers up to 15 462
- Flagg, R. F.**  
Explosive-driven, spherical implosion waves 4009
- Flavin, J. N.**  
Some bounds for quantities associated with two-dimensional anisotropic media 112  
Bounds for the torsional rigidity of orthotropic cylinders: Additional results 164
- Flear, B. S.**  
Brittle coatings suitable for use on large objects 310

- Fleischer, H.**  
See Tauscher, H. 4401
- Fleming, D. P.**  
Experiments on power loss in herringbone-grooved, gas-lubricated journal bearings 4973  
Flow in the hydrodynamic entrance region of ducts of arbitrary cross section 7171  
Steady-state and stability analysis of externally pressurized gas-lubricated journal bearings with herringbone grooves 7598
- Fleming, G.**  
Particle size of riversediments 8844
- Fleming, J. F.**  
See Keer, L. M. 5262
- Flemming, M.**  
Determination of cross-sectional values and unit stresses including warping forces according to shear field theory 2618  
Temperature problems at the air frame of jet-lift VTOL aircraft 7499  
Noise problems of VTOL with particular reference to the Dornier DO 31 7530
- Flesch, G.**  
Simulating the transfer behavior of a forced-circulation boiler with convection heating 1379
- Fletcher, E. A.**  
See Parks, D. J. 4767  
Hiroki, T. 5717  
Fuller, L. E. 8237
- Fletcher, L. S.**  
Thermal contact resistance of selected low-conductance interstitial materials 7411
- Flewitt, J. R.**  
See Buchan, A. L. 2427
- Flint, A. R.**  
Limit state design of highway bridges: A study of the implications with particular reference to certain examples 7980
- Flint, L. F.**  
Longitudinal gas dispersion in transitional and turbulent flow through a straight tube 7211
- Flockton, S. J.**  
Investigation of discrepancy between predicted and measured values of the sound insulation of layered panels 9941
- Flora, J. J., Jr.**  
Virtual origins of a free plane turbulent jet 5576
- Floriani, D.**  
General algorithm for the investigation of plasma instabilities 2311  
See also Cap, F. 2316
- Florin, G.**  
Deformations associated with the state of stress in uniformly rotating prisms with regular triangular cross section 6914
- Florio, P. J., Jr.**  
Development of a periodic flow in a rigid tube 2171
- Flower, R. A.**  
Laser instruments for measurements 5620
- Flugge, W.**  
The problem of an elastic circular cylinder 7700  
See also Kelkar, V. S. 159
- Flugge-Lotz, I.**  
Discontinuous and optimal control 1668  
See also Kashiwagi, Y. 6783
- Flumerfelt, R. W.**  
An experimental study of the validity of Fourier's law 4727
- Flynn, H. G.**  
See Eller, A. 8309
- Flynn, J. V., Jr.**  
The control of nonlinear systems: Part 6, Computational use of nonlinear programming 5038
- Flynn, P. D.**  
Photoelastic comparison of stress concentrations due to semicircular grooves and a circular hole in a tension bar 5073
- Focht, J. A., Jr.**  
See McClelland, B. 7027
- Fofonoff, N. P.**  
See Clarke, R. A. 7574
- Fogarty, L. E.**  
Trajectory optimization by a direct descent process 6805
- Fokin, A. G.**  
Correlation functions of an elastic field of quasi-isotropic solid bodies 2583  
Effect of orientations of reinforcing fibers on the elastic moduli of materials 5087
- Fokin, A. V.**  
Invariance of nonlinear automatic systems 812
- Folie, G. M.**  
Bending of clamped orthotropic sandwich plates 9392
- Foltz, J. V.**  
Theoretical Hugoniot stress-temperature-strain states for aluminum and copper 7867  
Technique for the direct observation of residual defect structures in explosive loaded metal cylinders 9128
- Fomichev, M. S.**  
Dynamic pressure pulsations, temperature and concentration profiles in the zone of discrete eddies in the wake of a plate in infinite gas flow 2081  
Momentum flux with velocity pulsations in a submerged semijet 6334
- Fomin, A. A.**  
Analysis of a symmetrical inductor with a multipole field 3970
- Fomin, G. M.**  
A method of damping the vibrations of poorly streamlined bodies located in a flow of gas or liquid 8950
- Fominykh, V. A.**  
Automatic load application attachment to PMT-3 microhardness tester 8747
- Fonarev, A. S.**  
On asymptotic solutions of unsteady expansion of gas into vacuum 2103
- Forbes, J. W.**  
See Coleburn, N. L. 3501
- Ford, R.**  
See Butlin, G. A. 8555
- Forghieri, R.**  
Dynamic response of a reactor coolant channel due to step variations of inlet fluid temperature, power generated in the fuel and fluid velocity 585
- Forman, W. B.**  
Submersibles with transparent structural hulls 9195
- Forrest, J. B.**  
Field studies of response of peat to plate loading 6155
- Forrestal, M. J.**  
Dynamic membrane stress in a circular viscoelastic ring 5095  
Transient motion of a rigid cylinder produced by elastic and acoustic waves 6993  
See also Sagartz, M. J. 1869  
Sagartz, M. J. 3458  
Longcope, D. B. 7545
- Forristall, G. Z.**  
Asymmetries in cylindrical waveguides 2172
- Forsberg, K.**  
See Brogan, F. 995
- Forsching, H.**  
On the question of orthogonality of natural vibration modes of aircraft 7828
- Forsching, H. -W.**  
On special problems in ground vibration testing of aircraft 6969  
Free vibrations of axisymmetrically loaded orthotropic conical shells 9451
- Forslund, R. P.**  
Dispersed flow film boiling 3877
- Forster, K.**  
Motion of a vehicle in the transition region of the three-body problem 623  
Unsteady flows in ducts with large variations in cross section area: Treatment by the difference method 9672
- Foschi, R. O.**  
Point-matching analysis of curved timber beams 7749  
See also King, B. 7924
- Fosdick, R. L.**  
On general measures of deformation 81  
On Ericksen's problem for plane deformations with uniform transverse stretch 839  
Nonuniqueness of second-order fluids under steady radial flow in annuli 2039  
A class of dynamically possible steady motions of incompressible, isotropic, simple materials 8013  
See also Edelstein, W. S. 845

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Foster, K.**  
Steady-amplitude, self-excited oscillations of hydraulic spool valves 1167
- Foster, M. R.**  
Use of Monte Carlo techniques in optimum design of the deconvolution process 1534
- Foster, P. K.**  
Moisture stress and the dry strength of ceramic clays 7872
- Foster, R. M.**  
See Masson, B. S. 1198
- Foster, T. D.**  
The effect of initial conditions and lateral boundaries on convection  
Convection in a variable viscosity fluid heated from within 5841
- Fourney, M. E.**  
Further applications of holography to photoelasticity 7917
- Fourney, W. L.**  
Stability of a finitely deformed thin cylindrical shell 3429
- Fournier, A.**  
A capacitive transducer for high pressures 3811
- Fournier, R. H.**  
See Hinson, W. F. 3773
- Fowler, A. G.**  
See Iqbal, M. 5654
- Fowler, P.**  
Welding of very thin foil 3656
- Fowler, T. K.**  
Anomalous resistive instability 4809
- Fowler, W. T.**  
See Hart, J. D. 6612
- Fowles, R.**  
Plane stress wave propagation in solids 9475
- Fowlis, W. W.**  
Characteristics of amplitude vacillation in a rotating, differentially heated fluid determined by a multi-probe technique 7583
- Fowlkes, C. W.**  
Two systems for automatic reduction of time-dependent photo-mechanics data 9551
- Fox, A.**  
See Bychawski, Z. 869
- Fox, B. H.**  
See Barrett, G. V. 8411
- Fox, H.**  
Distributed errors in orbit transfer 3105
- Fox, N.**  
On the derivation of the constitutive equations of ideal plasticity 2603  
On the continuum theories of dislocations and plasticity 5129
- Fox, R. L.**  
Rates of change of eigenvalues and eigenvectors 3268
- Fozard, J. W.**  
The Harrier: An engineering commentary 6597
- Frackiewicz, H.**  
The singularity of some non-smooth surface structures: Part 2 1973  
Kinematic criteria of geometric non-rigidity of discrete lattices 7615
- Fraenkel, L. E.**  
See Berger, M. S. 6755
- Fragetta, W. A.**  
See Lyttle, J. E. 8008
- Fraim, F. W.**  
The effect of a strong longitudinal magnetic field on the flow of mercury in a circular tube 614
- Francis, P. H.**  
The response of a thin elastic rod to combined thermal and mechanical impulse 1020  
The growth of surface microcracks in fatigue 5330
- Francois, C.**  
See Bourcier, M. 7203
- Frank, A. A.**  
See McGhee, R. B. 6738
- Frank, L. S.**  
Difference methods for solving the improper Cauchy problem simulating flow of a perfect gas through a nozzle 5526
- Franke, M. E.**  
Effect of vortices induced by corona discharge on free-convection heat transfer from a vertical plate 7418
- Frankena, J. F.**  
A uniform asymptotic expansion of the solution of a linear elliptic singular perturbation problem 6
- Franklin, F. A.**  
See Colombo, G. 7505
- Frankort, F. J. M.**  
Investigation of two oscillation types in a beam generated plasma 7485
- Franzini, J. B.**  
See Yeh, W. W. -G. 707
- Fraser, D. J.**  
Beams on elastic foundations: A computer-orientated solution for beams with free ends 6027
- Fraser, W. B.**  
Stress wave propagation in rectangular bars 2718  
The buckling of a column with random initial deflections 6054
- Frauenthal, J. C.**  
See Budiansky, B. 5386
- Frea, W. J.**  
Heat transfer from the wall of a porous solid involving gas injection and vaporization 9033
- Frederick, C. O.**  
See Hannant, D. J. 1118
- Frederick, D.**  
See King, W. W. 3789
- Frederick, J. R.**  
Acoustic emission as a technique for nondestructive testing 6242
- Fredrickson, D. R.**  
A drop calorimeter with an electron beam heated furnace 8229
- Free, M. G.**  
An integrated linear-transconductance analog multiplier 8452
- Freedy, A.**  
Information and control analysis of externally powered artificial arm system 8412
- Freeman, A. R.**  
See Skinner, V. R. 4724
- Freeman, D. C., Jr.**  
Static and dynamic stability derivatives of a model of a jet transport equipped with external-flow jet-augmented flaps 1257
- Freeman, R. A.**  
Shock waves from spark discharges 2885
- Freidin, A. S.**  
Dispersion of strength properties and reliability of glued joints 380  
The strength and creep of cemented metal joints in torsion 9624  
See also Yasovskii, S. R. 3659  
Yasovskii, S. R. 3660
- French, D. N.**  
Experimental methods of X-ray stress analysis 1958  
Heat transfer coefficients and thermal conductivity of cold liquids 3851
- French, J. L.**  
Nonenlarged box culvert inlets 9625
- French, M. J.**  
A Carnot theorem for split torque variable speed gears 371
- Freudenstein, F.**  
See Primrose, E. J. F. 1140  
Dobrzanskyj, L. 6292
- Freudenthal, A. M.**  
Second-order effects in the theory of plasticity 5106
- Frey, P.**  
See Uberoi, M. S. 2910
- Fricke, W.**  
Analytical and experimental studies of the sound field in a propeller duct 6625
- Fridlander, N. A.**  
A method of combined simulation of unsteady heat and mass transfer processes 2488
- Fridman, V. M.**  
Deduction of a system of equations of an adapted Galerkin method for shells of revolution of variable thickness from the mixed variation principle 9404  
See also Sussi, I. R. 4296
- Fridman, Ya. B.**  
See Miklyaev, P. G. 1726  
Solntsev, S. S. 2752  
Demina, N. I. 6229  
Konoplenko, V. P. 7100
- Fridrikh, A. M.**  
See Olkhovskii, G. G. 1284
- Frie, W.**  
On the flow in an asymmetric short pipe 3669

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Fried, I.**  
Some aspects of the natural coordinate system in the finite-element method 8759
- Friedel, H.**  
The influence of finite electrical conductivity on the development of a magnetically driven shock in MGD- $(\beta \ll 1)$ -Approximation 3074  
Nonideal magnetogasdynamic flows in boundary layer approximation 5737
- Friedland, S.**  
*See Stavsky, Y.* 6067
- Friedman, H. A.**  
*See Spar, J.* 4949
- Friedman, M.**  
Influence of residual elastic strain on the orientation of experimental fractures in three quartzose sandstones 7044
- Friedman, R.**  
Expansion of simulated storable propellants in a supersonic nozzle 574  
Experimental measurements of expanding storable-propellant products simulated by combustion of gaseous reactants 1410
- Friedman, V. M.**  
Functional methods applied to the problems of nonlinear periodic oscillations 7802
- Friend, J.**  
Lathe turning to two microinches 5423
- Friesen, W. J.**  
Use of photoionization in measuring velocity profile of free-stream flow in Langley pilot model expansion tube 1290
- Friichtenicht, J. F.**  
Evaporation of high-velocity particles in free-molecule flow 2111
- Frisch, H. L.**  
*See Wollkind, D. J.* 8078
- Frisch, H. P.**  
Coupled thermally-induced transverse plus torsional vibrations of a thin-walled cylinder of open section 8325  
*See also Donohue, J. H.* 3161
- Frisch, I. T.**  
*See Rothfarb, B.* 3292
- Fritsch, K.**  
*See Feke, G. T.* 9771
- Fritzsche, H.**  
Design criteria for a high-velocity test facility with arc heater and MHD-generator simulating the re-entry into the atmosphere 3095
- Frohn, A.**  
Spatially homogeneous solutions of the Boltzmann equation 7266
- Frolov, A. P.**  
On the dynamics of a gas bubble in a viscous incompressible liquid 4047
- Frolov, D. D.**  
*See Bartenev, G. M.* 4536
- Frolov, K. V.**  
*See Furman, F. A.* 3787
- Frolov, V. G.**  
Safety factors for involute gear transmissions 4512
- Frolov, V. V.**  
Investigation of a mixed-flow control stage with adjustable fixed blades 3914
- Frommelt, B.**  
*See Chaplain, R. A.* 3244
- Frost, N. E.**  
A theory of fatigue crack growth 7913
- Fruman, D.**  
*See Bellevaux, C.* 4556
- Frumkin, V. B.**  
*See Karliner, V. M.* 805
- Fry, D. L.**  
A preliminary lung model for simulating the aerodynamics of the bronchial tree 3255
- Fry, E. B.**  
*See Feistel, T. W.* 1304
- Fu, C. C.**  
Dynamic stability of a vibrating hammer 8638
- Fu, T. S.**  
Linear instability of asymmetric flow in channels 7224
- Fu, W. S.**  
Coplanar circular cracks under shear loading 2571
- Fuchs, E. G.**  
Some characteristics of the homogenization process in cast alloys 5315
- Fuchs, M.**  
*See Tanner, C. B.* 3879
- Fuechsel, P. G.**  
*See Bainum, P. M.* 9907
- Fujii, K.**  
Study on measurement of control system dynamics using the describing function method 4174
- Fujii, S.**  
*See Okushima, K.* 1911
- Fujii, T.**  
*See Akita, Y.* 3421
- Fujimoto, F.**  
Plasma oscillations excited by a fast electron in a metallic particle 3941
- Fujino, M.**  
Experimental studies on ship maneuverability in restricted waters: Part I 3225
- Fujita, I.**  
*See Hayashi, S.* 4950
- Fujita, K.**  
Stresses under the tooth-surface of crowned gears: Stress problems on the two elliptic bodies in contact with each other 1722
- Fujita, M.**  
*See Amano, K.* 22
- Fujita, Y.**  
Fundamental solutions in turbulent heat transfer in a tube 6486
- Fuka, B.**  
The vibrations of a rigid body fixed in a material plate 205
- Fukada, E.**  
*See Kaibara, M.* 9210  
*Kaibara, M.* 9214
- Fukaya, H.**  
*See Hildebrandt, J.* 3242  
*Hildebrandt, J.* 7604
- Fuks, G. I.**  
Method for determining the anti-friction characteristics of polymer coatings 3227  
Physical chemistry of the lubricating action and new lubricating materials 7594
- Fukuda, J.**  
Predicting long-term trends of deck wetness for ships in ocean waves 4958
- Fukuda, M.**  
A study on characteristics of cavity-type muffler: Part 1, Calculations by simplified theoretical formulas and experiments 5794
- Fukuda, S.**  
*See Suhara, T.* 4862
- Fukumoto, Y.**  
Deflection stability of beams under repeated loads 1979
- Fukuoka, S.**  
*See Kikkawa, H.* 407
- Fulcher, C. W. G.**  
*See Cheatham, J. B., Jr.* 8691  
*Paslay, P. R.* 8692
- Fulford, G. D.**  
A survey of recent Soviet research on the drying of solids 5695
- Fuller, A. T.**  
Optimal nonlinear control of systems with pure delay 62
- Fuller, L. E.**  
Flat flames in tubes: Easy fundamental flame speed measurements 8237
- Fulrath, R. M.**  
*See Nivas, Y.* 7055
- Fulton, R. E.**  
*See Stephens, W. B.* 5200
- Fumagalli, E.**  
Tests on cohesionless materials for rockfill dams 7034
- Funabashi, H.**  
*See Ogawa, K.* 2027
- Funabashi, K.**  
Behavior of needle rollers in needle roller bearing 4109
- Funahashi, A.**  
Microwave reflection measurements of electron densities in electromagnetically driven shock-produced plasmas 3070
- Funakawa, M.**  
The vibration of a cylinder caused by wake force in a flow 8143
- Funakoshi, M.**  
Experimental study on the shear strength of reinforced concrete beams with vertical prestress 1985

- Fung, A. K.  
See Boles, W. D. 668
- Fung, Y. C.  
Peristaltic transport 8404  
See also Lee, J. S. 2076  
Lew, H. S. 6743  
Lew, H. S. 7606  
Yin, F. 10017
- Funk, J. E.  
Transients in pneumatic transmission lines subjected to large pressure changes 8942
- Furduiev, V. V.  
See Indlin, Yu. A. 657
- Furlong, R. W.  
Design of concrete frames by assigned limit moments 8766
- Furman, F. A.  
Modulation of high-frequency vibrations in hydraulic systems with distributed parameters 3787
- Furr, H. L.  
See Cheng, A. P. 8754
- Furubayashi, E.-i.  
Behavior of dislocations in Fe-3% Si under stress 5120
- Furuhashi, R.  
Theory of elastic potential of inhomogeneous materials 5090
- Furuse, H.  
Small particles covered with fluid 4914
- Furuya, N.  
See Wakao, N. 555
- Furuya, S.  
See Ishihara, T. 4673
- Futagami, K.  
See Kitajima, K. 2612
- Futral, S. M., Jr.  
Experimental results of varying the blade-shroud clearance in a 6.02-inch radial-inflow turbine 7362  
See also Todd, C. A. 4664
- Fuzy, J.  
A new method for the solution of the problems of elasticity in three dimensions, its application for semi-infinite body loaded on its boundary 843
- Fyfe, I. M.  
See Ensminger, R. R. 6107
- Fymat, A. L.  
A novel type of matrix multi-dimensional singular linear integral equation 8424
- G**
- Gabasov, R.  
On the theory of necessary optimality conditions governing special controls 5947
- Gabler, W.  
Investigations on an acoustically "ideal" room 3128
- Gacesa, M.  
See Nicol, A. A. 9821
- Gadd, G. E.  
Ship wavemaking in theory and practice 8373
- Gaddis, J. L.  
A two-region model of the turbulent boundary layer, with emphasis on interfacial conditions 5544  
See also Lamb, J. P. 9696
- Gaek, Yu. V.  
Motion of the walls of a tube under axisymmetric impulsive loading 9490
- Gafarov, R. Kh.  
Method of measuring elastic micro-deformations on the surface of tubular samples 8751
- Gaffarov, K.  
Calculation of a deep foundation wall with consideration of the variability of the modulus of deformation of the support soil 1896
- Gaffney, J. S.  
Lateral dynamic response of large subsystems during launch transient conditions 7827
- Gafuri, R. A.  
Fluctuations of atmospheric thermal radiation 3215
- Gaggioli, R. A.  
More on generalizing the definitions of "heat" and "entropy" 2954
- Gagliardi, R. M.  
Input selection for parameter identification in discrete systems 4173
- Gahimer, F. H.  
Hydrolytic stability of urethane and polyacrylate elastomers in humid environments 9563
- Gai, S. L.  
See Tanner, L. H. 7309
- Gail, B.  
Pressure acting on the oscillating surface of a profile in a potential supersonic flow 8125
- Gaines, B. R.  
Stochastic computer thrives on noise 783
- Gaipova, A. N.  
A difference method for the solution of the problem of impact of a viscoplastic bar on a rigid wall 9483  
See also Baklanovskaya, V. F. 8348
- Gaisford, R. W.  
An analysis of corrugated plates under bending conditions 3393
- Gajendar, N.  
Bending of a partially clamped rectangular plate 6893
- Gajewski, A.  
Optimal shaping of an elastic homogeneous bar compressed by a polar force 9406  
Stability of nonprismatic bars in fluid flow 9892
- Gajewski, R. R.  
An evaluation of ASME ellipsoidal heads 8786
- Gajwani, S. H.  
See Kim, M. 5955
- Gakenheimer, D. C.  
Transient excitation of an elastic half space by a point load traveling on the surface 1870
- Galambos, T. V.  
See Eyre, D. G. 1978
- Galaska, M.  
Analysis of certain quasilinear problems of nonsteady hypersonic flow past bodies, based on the method of "rotary derivatives" 8129
- Galbraith, F. W.  
Shock spectra from subsurface nuclear explosions 4008
- Galchuk, L. I.  
On some problems of optimal control for systems described by parabolic equations 4190
- Galeev, A. A.  
New approach to plasma turbulence 3936  
See also Sagdeev, R. Z. 3078
- Galegar, W. C.  
Measuring subsurface spring flow with radiotracers 6454
- Galimov, N. K.  
Stability of sandwich conical and spherical shells 9419
- Galin, L. A.  
Motion of a rigid stamp on the boundary of a viscoelastic half-plane 1728
- Galitseyskiy, B. M.  
Effect of resonant fluctuations of coolant pressure on convective heat transfer in pipes 3860  
Convective heat transfer for a flow in a pipe fluctuating about the first resonant harmonic 5656  
Effect of the variable volume of a reservoir on the resonant frequency and on the convective heat transfer in pulsating flow in a tube 9805
- Galkin, L. M.  
Evaluation of nonlinear transformations in the presence of measuring noise 6804
- Galkin, V. S.  
Nature of flow and aerodynamic characteristics of bodies of very simple form in a viscous hypersonic flow 2881
- Gallagher, B.  
See Graefe, V. 9178
- Gallagher, J. P.  
Environmentally assisted fatigue crack growth rates in SAE 4340 steel 7915
- Gallagher, W. H.  
See Bowman, H. A. 6452
- Galletti, P. M.  
Advances in heart-lung machines 4124
- Gallo, W. F.  
Nonsimilar nature of the laminar boundary layer 7287
- Gallon, M.  
See Werle, H. 6455
- Galloway, K.  
See Benson, R. S. 5728

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Gal-Or, B.**  
Coupled energy and multicomponent mass transfer in dispersions and suspensions with residence time and size distributions 701  
Coupled heat and multicomponent mass transfer in particular systems with residence time and size distributions 3020  
Space dynamics and the foundations of classical and relativistic thermodynamics 6462
- Galos, M.**  
On the load-carrying capacity of multilayer pressure vessels 2010  
Computation of the limit load of a bar of general transversal non-homogeneity under conditions of torsion 8537
- Galperin, E. A.**  
Optimum stabilization of a linear system with incomplete information 5036
- Galster, D.**  
Strain analysis with photoelastic coating in strips 6212
- Galustov, K. Z.**  
*See Gvozdev, A. A.* 2593
- Galyun, N. S.**  
A variational problem of one-dimensional nonequilibrium gas-dynamics 2104
- Gambhir, R. S.**  
Heat conduction through polyatomic gas mixtures 3852
- Gamble, W. L.**  
Tests of a two-way reinforced concrete floor slab 5391  
*See also Sozen, M. A.* 7964
- Gambrell, S. C.**  
*See Case, R. O.* 7074
- Gamer, U.**  
A radially symmetric thermal stress state of an ideally plastic disk 1509
- Gamrekeji, S. I.**  
*See Guseinov, N. M.* 5439
- Ganapathy, S.**  
Transient response of control systems with nonlinear elements 9274
- Gandolfi, A.**  
*See Massonnet, Ch.* 2808
- Ganeva, L. I.**  
*See Valuev, V. N.* 9141
- Gangadharan, A. C.**  
*See Dundurs, J.* 6869
- Gangi, A. F.**  
A space-time filter for seismic models 6696
- Ganguli, J.**  
Analysis of interfacial pressure in a laminated structure and its damping characteristics 6977
- Ganguli, P. L.**  
A note on oscillatory series 6769
- Ganguli, S.**  
Biostructures 5878
- Ganiev, N. S.**  
Inverse problems of the flexure of sandwich plates and shells 4269
- Ganin, I. A.**  
Sufficient conditions for stable probability in variable structure control systems 9279
- Ganley, J. T.**  
*See Astill, K. N.* 7214
- Ganno, M.**  
*See Takagi, M.* 3220
- Gans, R. F.**  
On the precession of a resonant cylinder 9638
- Gapcynski, J. P.**  
Lunar gravitational field as determined from lunar orbiter tracking data 6608
- Gappoev, T. T.**  
Balancing the inertial load of a plane mechanism 8806
- Garbarini, G. R.**  
Mass transfer from single gas bubble: A comparative study on experimental methods 3901
- Garber, V.**  
*See Dickson, R. E.* 7521
- Garde, R. J.**  
*See Ranga Raju, K. G.* 8825  
*See Ranga Raju, K. G.* 8827
- Garde, S. C.**  
*See Negi, J. G.* 1539
- Gardner, J. E.**  
*See Pride, R. A.* 3592
- Gardner, M. B.**  
Image fusion, broadening, and displacement in sound location 7533
- Gardner, N. J.**  
Triaxial behavior of concrete 3601  
Response of cooling tower to turbulent wind 5762  
Design of pipe columns 8768
- Gardner, R. M.**  
Dynamic aortic diameter measurements in vivo 3260
- Gardon, R.**  
*See Narayanaswamy, O. S.* 9147
- Garg, K. D.**  
The problem of an unsteady heat transfer from porous flat plate: Compressible boundary layer 3735
- Garg, S. P.**  
Stability of structures on permeable foundations 4052
- Garga, V. K.**  
*See Bishop, A. W.* 1891
- Garibian, S. K.**  
*See Emerson, P. D.* 9461
- Garner, H. C.**  
Comparison of three methods for the evaluation of subsonic lifting-surface theory 1250
- Garnet, H.**  
Free vibrations of reinforced elastic shells 7820
- Garrard, W. L.**  
A method for suboptimal stabilization of spacecraft angular velocity 9305
- Garrellick, J. M.**  
*See Cheng, D. H.* 4359
- Garrett, C. J. R.**  
On the interaction between internal gravity waves and a shear flow 1259
- Garrett, R. E.**  
Effect of tolerance and clearance in linkage design 2028
- Garriott, F. E.**  
A versatile filler metal alloy 8817
- Garrison, C. J.**  
On the interaction of an infinite shallow-draft cylinder oscillating at the free surface with a train of oblique waves 4653
- Garrison, J.**  
*See Schimke, J.* 5084
- Garrison, J. M.**  
Unsteady flow simulation in rivers and reservoirs 4540
- Gartshore, I. S.**  
Small perturbation jets and wakes which are approximately self-preserving in a pressure gradient 8865
- Gartside, H.**  
*See Strafford, K. N.* 7718
- Garvine, R. W.**  
*See Weinbaum, S.* 5551
- Garza, L. R.**  
*See Dodge, F. T.* 9731
- Gashelin, V. G.**  
Wear calculations for steel ropes 3232
- Gaspari, G. D.**  
*See Shyu, W.-M.* 3135
- Gasparyan, A. M.**  
On the critical velocity of a two-phase flow 9642
- Gasparyan, S. A.**  
Accumulation of residual strains in testpieces under variable loading conditions 8741
- Gaspers, P. A., Jr.**  
Further experimental results on the influence of the turbulent boundary layer on panel flutter 8284
- Gaster, M.**  
The structure and behavior of laminar separation bubbles 2136  
Vortex shedding from slender cones at low Reynolds number 8866
- Gatley, W. S.**  
Methods for evaluating the performance of small acoustic filters 4880
- Gaugler, R. E.**  
*See Friedman, R.* 574  
*See Friedman, R.* 1410
- Gaukröger, D. R.**  
*See Taylor, G. A.* 2693
- Gauntner, J. W.**  
Survey of literature on flow characteristics of a single turbulent jet impinging on a flat plate 5529

- Gaushus, E. V.  
Dynamics of relay systems for controlling the orientation of cosmic devices 8295  
Investigating self-oscillations of space vehicles: Part 1 9459  
Investigation of auto-oscillations of cosmic devices: Part 2 9460
- Gautesen, A. K.  
See Olmstead, W. E. 1194
- Gauvin, W. H.  
See Clamen, A. 6415
- Gauzner, S. I.  
See Popov, A. V. 3629
- Gavarini, C.  
See Ceradini, G. 5382  
Ceradini, G. 8762
- Gavrichenkova, I. V.  
See Klein, G. K. 6141
- Gavrikov, Yu. A.  
See Drozdov, Yu. N. 7996
- Gavrikov, Yu. P.  
See Shcherbakov, V. M. 170
- Gavrilenko, B. A.  
Determining mean flow parameters and empirical coefficients of a torque converter 4665
- Gavrilenko, G. D.  
Limit analysis of a ribbed cylindrical shell by the theory of maximum equilibrium 6047
- Gavrilov, L. R.  
On the size distribution of gas bubbles in water 8342
- Gavrilova, N. D.  
See Aladyev, I. T. 5484
- Gazda, I. W.  
See Somerscales, E. F. C. 6490
- Gebel, R. K. H.  
The normalized cumulative black-body functions, their applications in thermal radiation calculations, and related subjects 4716
- Gebhart, B.  
Viscous dissipation in external natural convection flows 2984  
Natural convection flow, instability, and transition 5664  
See also Knowles, C. P. 3742  
Dring, R. P. 3809  
Gunness, R. C., Jr. 5662  
Hieber, C. A. 9806
- Geddes, L. A.  
See Valentiniuzzi, M. E. 10018
- Gedney, R. T.  
See Goldstein, M. E. 9974
- Gee, S. W.  
See Lock, W. P. 4639
- Geel, C.  
See Beghi, C. 9949
- Geers, T. L.  
Excitation of an elastic cylindrical shell by a transient acoustic wave 2720
- Geertsma, J.  
A rapid method of predicting width and extent of hydraulically induced fractures 8713
- Gehin, C.  
See Kermabon, A. 3196
- Gehlot, N. S.  
See Chalam, V. V. 7932
- Geib, F. E., Jr.  
Measurements on the effect of transducer size on the resolution of boundary-layer pressure fluctuations 4620
- Geidarov, T. G.  
See Vilenkin, S. Ya. 8459
- Geier, B.  
See Seggelke, P. 7795
- Geiger, J.  
Measures for the reduction of the impact hazard at motor vehicles 8794
- Geints, R. G.  
The temperature field of a hollow cylinder for small Fourier number 1321
- Geishtovt, M. A.  
Empirical equations for calculating heat transfer through a finned wall 546
- Geisler, J. E.  
The sea breeze forerunner 724
- Gelb, A.  
Multiple input describing functions and nonlinear systems design 1644
- Gelig, A. Kh.  
The stability of nonlinear pulse systems 5017
- Geller, L. M.  
Device for determining dynamic characteristics of plastics 8743
- Gelman, A. S.  
Experimental investigation of the kinematics and working process of some elements of axial-reciprocating hydraulic machinery 509  
Kinematics of multiple radial-piston hydraulic motors 4678  
See also Furman, F. A. 3787
- Gelman, L. I.  
Film-boiling heat transfer to mercury in a vertical tube 3875
- Gelpke, H.  
See Profos, P. 5954
- Gemmerling, G. A.  
Dependence of internal energy of a solid on the rate of temperature change 1310
- Generalov, N. A.  
See Dsipov, A. I. 3841
- Geneste, L.  
Turbulent diffusion phenomena in industrial plants 4626
- Gengenbach, W.  
Experimental testing of tires on wet tracks: Part 2 5865
- Geniev, G. A.  
Generalization of the condition of limit equilibrium of a cohesionless mass 5294
- Genin, J.  
Stability in the three-dimensional whirling problem 7811
- Genser, R.  
Preprocessing of information for learning automata 8487  
Optimal direct digital control in the case of limited speed of correcting 9296
- Gent, A. N.  
Adhesion of visco-elastic materials to rigid substrates 2596
- Geogdzaev, V. O.  
Drawing of thin-walled anisotropic tubes through a conical die 3525
- George, A. R.  
Sonic boom waveforms and amplitudes in a real atmosphere 4866
- George, D. W.  
See Campbell, B. 2190
- George, Y. H.  
See Moore, F. K. 6500
- Georgescu, A.  
On Heisenberg's asymptotic solutions 8876  
Note on Joseph's inequalities in stability theory 9646  
Improvement of one of Joseph's theorems and one of its applications 9647
- Georgievsky, V. B.  
Method of determining the dynamic parameters of control systems: Method of recurrent relationships 3312
- Gerard, G.  
See Lakshmikantham, C. 8593
- Gerashchenko, E. I.  
Stability of a control system with a forced moving mode 3319
- Gerasimov, A. N.  
Determining the sensitivity of the oscillation index from the open-loop frequency response 3324
- Gerber, N.  
Operation cycle of expansion tube with nozzle plate 3719
- Gerdas, R. M.  
See Feistel, T. W. 1304  
Rolls, L. S. 9101
- Gerecke, Ed.  
Hybrid and digital simulation of two-pulse bridges 9265
- Gerking, L.  
Method for the solution of the Navier-Stokes equations with the aid of integral relations: Application to the flow past a finite flat plate 452  
Integral relations for incompressible viscous flows 5480
- Gerlach, C. R.  
Flow-induced vibrations of metal bellows 6437
- Gerlach, O. H.  
Aircraft performance measurements in nonsteady flight 4638
- Gerlakh, N. I.  
See Brushlinskii, K. V. 6579
- Germain, P.  
State-of-the-arts and interest in transonic problems 429

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Germeier, Yu. B.**  
On the necessary conditions for a maximin 9247
- Gerrard, J. H.**  
Experimental investigation of separated boundary layer undergoing transition to turbulence 8103
- Gerry, D. J.**  
See **Outwater, J. O.** 7901
- Gerry, U. K.**  
On the performance of shrouded propellers 7370
- Gershkovich, B. M.**  
Shearing instrument for viscoplastic materials 3373  
See also **Chepik, N. V.** 4444
- Gershtein, M. S.**  
See **Volmir, A. S.** 1028
- Gershuni, G. Z.**  
Convective instability of horizontal fluid layers bound by thermal interaction 1335
- Gerstner, R.**  
Some instruments and methods used in ultrasonic diagnosis 9218
- Gertsbakh, I. B.**  
Models of failure 9527
- Gertsenshtein, S. Ya.**  
Effect of a single roughness element on turbulence onset 416
- Gessing, R.**  
Difference equations of nonlinear sampled-data systems and application of these equations to computation of system responses 3326
- Gessner, F. B.**  
See **Berry, M. R., Jr.** 9948
- Gesund, H.**  
Ultimate strength tests of reinforced concrete beams in combined torsion, bending and shear 1122
- Getsov, L. B.**  
Methods of testing materials for long-term strength in contact with liquid metal 315  
Investigation into high-temperature creep under cyclic tension and compression 4901  
Thermal fatigue testing methods 8329  
See also **Kuzema, Yu. A.** 4907
- Getzler, Z.**  
Experimental study of buckling of buried domes 1796
- Ghaffari, A.**  
Multiple midcourse maneuvers in interplanetary guidance 3991  
Integration of the relativistic equations of motion of an artificial Earth satellite 9115
- Ghali, A.**  
See **Gopalakrishnan, K. S.** 6251  
See **Gopalakrishnan, K. S.** 7717
- Gheorghiu, A.**  
Use of electronic computers for the direct determination of the succession of plastic hinges in proportionally loaded frames 1130
- Gheronimus, Ya. L.**  
On the application of Chebyshev's methods to the problem of balancing mechanisms 9618
- Ghia, K. N.**  
Laminar mixing of heterogeneous axisymmetric coaxial confined jets 4571
- Ghigliazza, R.**  
Comparative investigation of friction in externally pressurized journal bearings 747  
See also **Rossi, L. C.** 4853
- Ghigliazza, R. S.**  
See **Michelini Di San Martino, R. C.** 9204
- Ghildyal, C. D.**  
On the turbulent swirling inlet flow in a circular pipe 478  
See also **Varma, R. K.** 9008
- Ghista, D. N.**  
An analytic elastic-viscoelastic model for the shape and the forces in the left ventricle 6739
- Ghobarah, A. A.**  
Overall and local buckling of channel columns 1793
- Ghose, J. P.**  
The rough model technique in ship resistance research 4078
- Ghose, S. K.**  
Some basic studies regarding seepage flow in irrigation structures 6689
- Ghosh, B.**  
Moisture stresses in a long hollow wood pole of constant outer and inner radius in a state of plane strain 2561
- Ghosh, K.**  
See **Som, P. K.** 7956
- Ghosh, P. K.**  
On the bending of an annular plate of variable rigidity under the combined action of uniform compression and uniform load 923  
On  $(p, q)$ -analytic functions and some of their applications in mechanics of continua 5903
- Ghosh, P. R.**  
Torsion of a large thick composite plate under shearing forces applied on two opposite faces, having transverse isotropy 856  
Torsion of a hollow circular composite cylinder of cylindrically anisotropic material under tangential tractions acted on the inner surface, outer surface being fixed 6849  
Thermoelastic stresses in an infinite anisotropic elastic slab resting on a rigid insulating plane and having a point heat-source (i) outside the medium, (ii) on the upper surface 8320
- Ghosh, S. C.**  
On thermoelastic wave in initially stressed bodies of incompressible material 6657
- Ghosh, S. Ch.**  
Action of a twisting moment impulse on an elastic plate resting on a rigid foundation 6110
- Ghosh, S. L.**  
Disturbance in an infinite viscoelastic plate due to an oscillating pressure applied on the inner surface of a circular hole 7817
- Ghosh, S. N.**  
See **Ghose, S. K.** 6689
- Gianasso, M.**  
A theoretical study of gradual resistance variation in fatigue life gages 5353
- Giannotta, S. F.**  
Two modes of momentum transfer for a stationary arc in a transverse magnetic field 4822
- Giarretto, H.**  
The effects of stereoscopy on the recognition of patterns in visual noise 1595
- Gibala, R.**  
See **Povolo, F.** 221
- Gibbings, J. C.**  
The throat profile for contracting ducts containing incompressible, irrotational flows 402  
Thermomechanics: An introduction to the governing equations of thermodynamics and of the mechanics of fluids 5626
- Gibbons, E. V.**  
A recorder to measure the joint movement in a building 5422
- Gibbons, M.**  
Longitudinal oscillations of a plasma having a Fermi distribution of electrons 8267
- Gibbs, G. B.**  
Thermodynamic analysis of dislocation glide controlled by dispersed local obstacles 5119
- Giberson, M. F.**  
Two nonlinear beams with definitions of ductility 148
- Gibson, C. H.**  
Fine structure of scalar fields mixed by turbulence: Part 2, Spectral theory 3754  
Statistics of the fine structure of turbulent velocity and temperature fields measured at high Reynolds number 8368
- Gibson, G. A.**  
The use of Legendre polynomial expansions in solving optimal control problem in the spaces 7680
- Gibson, M. R.**  
Effects of the different temperature scales on the calculation of the thermodynamic properties of water substance 5639  
An equation of state for compressed water from 1 to 1000 bar and from 0°C to 150°C 6474  
See also **Bruges, E. A.** 4712
- Gibson, R. E.**  
On the loaded elastic half-space with a depth varying Poisson's ratio 9327
- Gierasch, P. J.**  
A study of the diurnal thermal wave in a nongrey atmosphere 731

- Giesecke, J.  
Uplift pressure and loss of water as the result of seepage under dams 2843
- Gieseler, R.  
See Luders, A. 6282
- Giesing, J. P.  
Vorticity and Kutta condition for unsteady multi-energy flows 2146
- Gifford, E. W. H.  
The design and construction of the Calder Bridge on the M1 motorway 4990
- Gifford, W. E.  
See Ackermann, R. A. 3013
- Giffkins, R. C.  
The dependence of grain-boundary sliding on shear stress 138  
Transitions in creep behavior 9346
- Gilbert, E. G.  
The decoupling of multivariable systems by state feedback 5023
- Gilbert, F.  
See Miles, J. 2939
- Gilbert, J. L.  
See Faison, R. W. 936
- Gilchrist, A.  
See Neilson, J. H. 6724
- Gilde, L.  
Dimensioning of towers with elastic constraint 2013
- Gile, W.  
See Smith, S. W. 7865
- Gileadi, A. E.  
Nuclear excavation of an elat-dead sea waterway 3118
- Giles, M.  
Drift and diffusion of filament ion clouds in the Earth's ionosphere 4932
- Gill, A. E.  
Instabilities of a buoyancy-driven system 1332  
The Reynolds number similarity argument 7204  
See also Baines, P. G. 2281
- Gill, S. P.  
Shock tube with implosive jet driver 4688
- Gill, S. S.  
The effect of geometry change on the application of limit analysis to the design of pressure vessel nozzles 8787  
See also Robinson, M. 356  
Coon, M. D. 9358
- Gill, W. N.  
Dispersion in developing velocity fields 2120
- Gilles, S. E.  
A substitute-kernel approximation for radiative transfer in a nongrey gas near equilibrium, with application to radiative acoustics 3873
- Gilley, G. E.  
See Mayne, A. W., Jr. 6380
- Gillin, L. M.  
The engineering potential of fiber-reinforced composite materials 5079
- Gillis, P. P.  
On the determination of stress, strain, strain-rate relations from dynamic beam tests 1041  
Inverse strain-rate effects 7726
- Gills, B. G.  
See Etoc, P. 6527
- Gilman, J. J.  
Micromechanics of flow in solids 5101
- Gilmartin, M. J.  
Limit positions of four-link spatial mechanisms: Part 2, Mechanisms having revolute, cylindric and prismatic pairs 7159  
See also Duffy, J. 7158
- Giltrow, J. P.  
A relationship between abrasive wear and the cohesive energy of materials 8387  
The effect of particle shape on the abrasiveness of lamellar solids 9196
- Gimbutis, G. I.  
See Zhukauskas, A. A. 2228
- Gimonet, J.-F.  
See Fournier, A. 3811
- Ginevskii, A. S.  
Investigation of the microstructure of a turbulent jet in a wake 5572
- Gintsburg, A. I.  
See Dombrovskii, R. V. 3814
- Gintsburg, B. Ya.  
Splitless-type piston rings 6290
- Ginzburg, I. P.  
Turbulent MHD flow in a transverse magnetic field 1418  
Solution of turbulent-boundary-layer problems with longitudinal pressure gradients 2894  
Turbulent boundary layer in the presence of a pressure gradient with injection 3728  
Possible approximate methods for solving problems of the turbulent boundary layer during the flow of gas mixtures 5552  
Turbulent boundary layer in a transverse magnetic field 5735
- Giombi, A.  
Rheology of human foetal blood with reference to haematocrit, plasma viscosity, osmolality and pH 10020
- Giona, R. A.  
See Barba, D. 2280
- Girard, J.  
Vibrations of machine foundation blocks on elastic bases having at least one symmetry plane 8618
- Giraudier, L.  
A method for the simultaneous and independent measurement of thermal and electrical parameters 4715
- Giri, R. R.  
A note on torsional deformation of a nonhomogeneous magnetostrictive cylinder 7707
- Girijavallabhan, C. V.  
Analysis of shear walls with openings 3618
- Giroud, J.-P.  
Effect of the external load on vertical surfaces 258  
Rectangular linearly loaded foundation: Settlement and constraints 1053  
Mean settlement of an elastic soil, bearing a linearly distributed tangential load 5303
- Girsanov, I. V.  
Certain relations between the Bellman and Krotov functions for dynamic programming problems 2470
- Gitis, M. B.  
Measurement of the temperature dependence of the velocity of sound in small solid specimens 4885  
Sound propagation in an inhomogeneous medium 4888
- Giunta, J. S.  
Flow patterns of granular materials in flat-bottom bins 2004
- Givens, E. J.  
Dynamic characteristics of spatial mechanisms 1141
- Giverts, M. E.  
See Beletskii, V. V. 5769
- Gjelsvik, A.  
See Tao, L. C. 5825
- Gjessing, D. T.  
Spectral measurements and atmospheric stability 1548
- Gjevik, B.  
See Ellingsen, T. 7727
- Gkhosh, K. M.  
A model of turbulence which is symmetrical around a fixed axis 1237
- Glaberson, W. I.  
Hydromagnetic duct flow: Theory and experiment 9056
- Gladwell, G. M. L.  
A note on the radiation from a circular piston in a plane wall 643  
The forced torsional vibration of an elastic stratum 6950
- Glagolev, A. I.  
Experimental study of entropy extremality on the critical streamline of supersonic flow past a body 8063
- Glagovskii, B. A.  
Certain problems of the calculation and selection of the carrier frequency in pulse strain gages 2778
- Glandorf, D. R.  
Lagrange multipliers and the state transition matrix for coasting arcs 628
- Glanzmann, H.  
See Buerger, E. J. 9910
- Glasnak, L.  
Intermittent rotary motion mechanisms 377
- Glass, I. I.  
See Flagg, R. F. 4009  
Heuckroth, L. E. 4861
- Glatt, L.  
See Ackenberg, R. C. 1223
- Glawe, G. E.  
See Krause, L. N. 9751

- Glaznov, V. E.  
Diffraction of a wave radiated by a cylinder at a grating of acoustically compliant cylinders 2368
- Glazov, V. M.  
See Krestovnikov, A. N. 2210
- Gleim, P. S.  
See Morizane, K. 7553
- Glenn, H. D.  
A study of high-velocity (4.0-6.5 cm/ $\mu$  sec) jet propagation through expansion chambers 9880
- Glenn, L. A.  
Stationary radial source flow of liquid particles into vacuum 702  
Recondensation from a particle-vapor source flow into vacuum 4044
- Glick, H. S.  
See Hofland, R. 5619
- Glicksman, L. R.  
An approximate method for multi-dimensional problems of radiative energy transfer in an absorbing and emitting media 5674
- Gliencke, J.  
See Kollmann, K. 5237
- Glikman, L. A.  
Effect of strain rate on the mechanical properties of steel under tensile strain 7095  
See also Tylevich, I. N. 4451
- Glikman, L. G.  
Integrating the Hamilton-Jacobi equation for a certain class of Hamiltonians 1694
- Glinska, M. A.  
Estimation of maximum stresses in turbine blades 3051
- Gliozzi, A.  
See Ciani, S. 3178
- Glockner, P. G.  
Physical strains in nonlinear thin shell theory 3414
- Glover, K. M.  
Simultaneous radar, aircraft and meteorological investigations of clear air turbulence 4951
- Gloyna, E. F.  
See Shih, C.-S. 4553  
Shull, R. D. 8034
- Glozman, V. M.  
See Kogan-Volman, G. I. 3474
- Gluck, J.  
See Winokur, A. 362
- Glukhov, A. B.  
Recovery of a nonlinear link's characteristics from its input and output signals 2501
- Glushkov, G. I.  
Dynamic load effect on footings over elastic layers 9504
- Glushkov, L.  
See Mikhailov, M. 9409
- Glushkov, Yu. M.  
The resistance of fibrous filters in a free molecular flow 8088
- Glyabin, Yu. V.  
Calculation of a plate with an axial hole with the aid of the hypothesis of non-plane sections 5152
- Glynn, T. E.  
See Kirwan, R. W. 8668
- Gnatyuk, A. D.  
See Karlashov, A. V. 3556
- Gnos, A. V.  
See Gallo, W. F. 7287
- Gobetz, F. W.  
A survey of impulsive trajectories 4844
- Goda, K.  
Transverse wave loads on a ship model in waves 4081
- Godard, K.  
Minimum stable bubble volumes and bubble collapse rates in gas fluidized beds 4045
- Godbole, P. N.  
See Kanchi, M. B. 6267
- Godfrey, D. A.  
Evaluation of prestressed post-tensioned forces on the shallow dome of containment structure 7135  
See also Yang, H. T. Y. 4482
- Godin, P.  
See Caseau, P. 54
- Godward, R.  
See Babij, G. B. 7415
- Godycki, T.  
Review of outstanding research works on deep beams with stiffening ribs 3603
- Goedde, E. F.  
Experiments on liquid jet instability 8137
- Goel, J.-J.  
Construction of basic functions for numerical utilization of Ritz's method 6776  
See also Dupuis, G. 6826
- Goel, S. C.  
P- $\Delta$  and axial column deformation in aseismic frames 7987
- Goeller, J. E.  
Dynamic stress and displacements in a two-material cable system subjected to longitudinal excitation 1826  
Analytical and experimental study of the dynamic response of cable systems 9432
- Goffi, L.  
Critical considerations on in situ tests by means of jacks to determine the bulk modulus of elasticity of rock masses 7040
- Gogate, A. B.  
Structural design considerations for settling tanks and similar structures 2005
- Gogin, Yu. N.  
Optimum operation systems for piston-type air compressors 3801
- Gogish, L. V.  
A study of short supersonic nozzles 3718  
Classification and approximate profiling method for plug nozzles 7251
- Gogotsi, G. A.  
Automation of a set-up with programmed control for testing the thermal strength of brittle materials for different conditions of thermal working 697  
See also Antonenko, V. M. 4037
- Goines, W. C.  
Low level outlets 5452
- Gokarn, R. P.  
Developments in ship manoeuvrability 4957
- Gokhale, M. H.  
Effects of viscosity and electrical conductivity on the stability of a liquid model of hard-core pinch 6567
- Gokhfeld, B. L.  
Some construction properties of Western Sivas silts 7871
- Gokolov, V. V.  
See Kostyuk, Z. D. 306
- Gokyu, I.  
Warm working of metals and alloys 3376
- Golant, V. E.  
Plasma compression studies in the "Tuman" device 6592
- Gold, H.  
See Seldner, K. 9283
- Goldberg, J. E.  
See Jorgenson, J. L. 1977
- Goldberg, T. J.  
Hypersonic aerodynamic characteristics of two delta-wing X-15 airplane configurations 7326
- Goldberg, W.  
The exponential extension ratio history: Comparison of theory with experiment 5096
- Goldburg, A.  
See Pao, Y.-H. 8366
- Goldenveizer, A. L.  
Methods for justifying and refining the theory of shells: Survey of recent results 934
- Golder, H. O.  
See McCammon, N. R. 9512
- Goldhoff, R. M.  
The influence of notches on mechanical behavior at elevated temperatures: Some metallographic observations 6190
- Goldin, E. M.  
Flow stability between separator plates 419
- Goldin, M.  
Breakup of a laminar capillary jet of a viscoelastic fluid 4525
- Goldman, E. B.  
Evolution of an initial disturbance in a gas mixture 8120  
Chebyshev analysis of stress concentrations 8518
- Goldman, I. B.  
Turbulent Schmidt numbers 7319  
Corrosive wear as a failure mode in lubricated gear contacts 8388
- Goldman, R. L.  
Vibration analysis by dynamic partitioning 5380

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Goldschmidt, V. W.  
See Flora, J. J., Jr. 5576
- Goldshtein, M. E.  
Porous chromizing increases fatigue strength of steel components 7914
- Goldshtein, M. N.  
Application of variational method to the computation of earth pressure on retaining walls 8686
- Goldsmith, E. L.  
The performance of some axisymmetric isentropic centerbody intakes designed for Mach numbers of 2.48 and 3.27 9669  
See also Brown, C. S. 9710
- Goldsmith, J.  
See Pfenninger, W. 6387
- Goldsmith, L. A.  
See Shaw, D. 536
- Goldsmith, W.  
See Lewis, J. L. 1863  
Kenner, V. H. 1864  
Johnson, C. V., III 3562
- Goldstein, A. A.  
Two alternatives to the Lagrangian multiplier method 9237
- Goldstein, M. E.  
Injection of an inviscid separated jet at an oblique angle to a moving stream 1174  
Injection of an attached inviscid jet at an oblique angle to a moving stream 1175  
Boundary-layer analysis of two-phase flow over an oscillating flat plate 6394  
Theory of separation of variables for linear partial differential equations of the second order in two independent variables 6761  
Transient conformal mapping method for two-dimensional solidification of flowing liquid onto a cold surface 7440  
A method for obtaining analytical solutions to the equation for wind-driven circulation in a shallow sea or lake 9974  
See also Braun, W. 1215  
Howell, J. R. 1353  
Siegel, R. 8350
- Goldstein, P.  
A research study on internal corrosion of high-pressure boilers: Final report 3010
- Goldstein, R. J.  
Stability of a horizontal fluid layer with zero shear boundaries 8196  
See also Sparrow, E. M. 9807
- Goldsworthy, F. A.  
On the motion established by a constant energy explosion followed by an expanding piston 3116
- Golego, N. N.  
See Kolesnichenko, L. F. 743
- Golitsyn, G. S.  
Vertical propagation of sound waves in an atmosphere with height-variable viscosity 5854
- Gollwitzer, H. E.  
On nonlinear oscillations for a second-order delay equation 1645
- Golodnyak, V. A.  
Potential distribution for the flow of an ionized gas in a channel 3064
- Goloschchapov, B. N.  
Investigation of an annular cascade of small hub-tip ratio with different profiles of the flow section 505
- Golovanov, V. P.  
Formulation of the stability criterion for elevated temperatures 185
- Golovchan, V. T.  
Diffraction of elastic waves by an infinite row of circular cylinders 5251  
See also Guz, A. N. 5225  
Guz, A. N. 9425
- Golovin, A. M.  
Hydrodynamics of a bubble system in a low viscosity fluid 5836  
See also Voinov, O. V. 7436
- Golovskii, E. A.  
Experimental study of specific volumes of liquid CO<sub>2</sub> 9774
- Goltsev, V. Yu.  
Tensile strength of a thin crack-containing sheet specimen 3544  
Assessment of ability of high-tensile thin-sheet steel grade VNS-9 to retard failure 5357
- Goltsova, V. P.  
See Lapshov, V. N. 582
- Golubentsev, A. N.  
Integral methods in dynamics 3436
- Golubev, G. V.  
Determining the pressure field in a heterogeneous porous medium 8347
- Golubev, I. F.  
The thermal conductivity of methanol and ethyl alcohol at different temperatures and pressures 7393
- Golubev, V. G.  
Hill stability in the unrestricted three-body problem 826
- Golubtsova, M. N.  
Influence of dynamic loading on the lateral pressure and lateral pressure coefficient of sandy soil 6137
- Golyamina, I. P.  
See Valuev, V. N. 9141
- Golybin, V. G.  
See Glikman, L. A. 7095
- Goman, O. G.  
Flow of supersonic stream past bodies at small angles of attack 8878
- Gomulinski, A.  
Bending of ring resting on elastic foundation 8552
- Goncharov, B. V.  
Use of prefabricated grids in piled foundations of dwelling houses 7033
- Gonor, A. L.  
Measurement of the drag of a star-shaped body in supersonic flow at  $M = 6$  and  $8$  5588
- Gontarovskii, P. P.  
See Silva, O. K. 5226
- Gontier, G.  
Mecanique des milieux deformables: Principes et theoremes generaux: Maitrise de mecanique, maitrise de M.A.F. (Mechanics of deformable media: General principles and theorems: Command of mechanics, command of M.A.F.) 3266
- Gontkewitsch, W. S.  
Eigenschwingungen von Platten und Schalen (Translated from the Russian by Krause, A.), (Natural vibrations of plates and shells) 2683
- Goodall, I. W.  
See Calladine, C. R. 2007
- Goodard, J. O.  
See Stuckey, T. J. 647
- Goode, C. D.  
Bending and torsion of reinforced concrete beams 6254
- Goode, M. W.  
See Adams, J. J. 1597
- Goode, R. J.  
See Judy, R. W., Jr. 4422
- Gooderum, P. B.  
See Hinson, W. F. 9032
- Goodier, J. N.  
Elastic bending of pretwisted bars 7744
- Goodman, L. E.  
See Feng, G. C. 5058
- Goodman, R. R.  
See Bunney, R. E. 5802
- Goodrich, G. J.  
See Conolly, J. E. 8377
- Goodwin, G. C.  
Estimation of process parameters and states 2513
- Goodwin, R. D.  
Nonanalytic vapor pressure equation with data for nitrogen and oxygen 5633
- Gopal, E. S. R.  
See Subramanyam, S. V. 9723
- Gopalacharyulu, S.  
Bi-harmonic eigenfunction expansions for the sector problem 1701
- Gopalakrishnan, K. S.  
A hypothesis on mechanism of creep of concrete with reference to multiaxial compression 6251  
Creep Poisson's ratio of concrete under multiaxial compression 7717
- Gopinath, B.  
On the identification of linear time-invariant systems from input-output data 2512
- Gorbatyuk, V. T.  
Equation of the fatigue curve and its application for the accelerated determination of the limit of endurance of certain alloys at high temperatures 286
- Gorbunov, V. F.  
Parameter which characterizes the width of the dynamic frequency range of seismic transducers 7373

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Gorbunov-Posadov, M. I.  
Displacement and compaction of soil by a driven pile 4356
- Gordeev, A. V.  
See Arefev, V. I. 7484
- Gordeeva, Yu. F.  
Time-dependence of orbital elements in long-period oscillations in the three-body boundary-value problem 3101
- Gordienko, V. P.  
High-frequency stabilization of a plasma cylinder carrying current in a longitudinal magnetic field 3085
- Gordon, A. R.  
Ionizing detonation waves in transverse electromagnetic fields 2325
- Gordon, P.  
See Scala, S. M. 2878
- Gordon, W. B.  
On the relation between period and energy in periodic dynamical systems 6936
- Gore, M. M.  
Shock tunnel operation with an expansive area change at the main diaphragm 8971
- Gorecki, H.  
On switching instants in multidimensional minimum-time control problems: Part 1, Subcase different eigenvalues  $S_1 \neq S_2 \neq \dots \neq S_n$ ; Part 2, Subcase of the one  $n$ -tuple eigenvalue  $S_1 = S_2 = \dots = S_n = S$   
On switching instants in minimum-time control problem: Part 1, One-dimensional case. Different eigenvalues; Part 2, One-dimensional case  $n$ -tuple eigenvalue 64, 3339
- Gorelik, A. Kh.  
Approximate equations for turbine warmup 579
- Gorelov, D. N.  
Determining nonstationary aerodynamic forces for a spatial lattice of plates in subsonic gas flow 8055
- Gorelov, L. K.  
Calculating the stressed states of flexible elements in harmonic drives 3661
- Gorelov, S. L.  
See Vlasov, V. I. 3866
- Gorenshtein, B. V.  
Approximate analysis of multiple-barrel skin construction vaults 9384
- Gorenshtein, I. V.  
Noise reduction of shake tables with eccentric mechanical vibrators 8312
- Goretski, Kh.  
Determination of the maximum displacement and the time of displacement of a controlled variable on the parameters of linear control systems 3313
- Goring, G. E.  
An acoustical thermometer for the temperature range 300-700°K 4717
- Gorman, D. J.  
A new friction factor for laminar flow in circular annuli 1180
- Gormley, J. F.  
Nonsymmetric modes of complete spherical shells 3455
- Gorodtsov, V. A.  
See Barenblatt, G. I. 8912
- Gorshkov, A. G.  
See Grigolyuk, E. I. 7348
- Gorskaya, N. V.  
See Barkhatov, A. N. 9442
- Gorton, R. E.  
Temperature measurement for aircraft-turbine-engine development 4788
- Goryachev, V. L.  
See Burminskii, E. P. 1440
- Gosain, N.  
Experimental study of frame models with twin diagonal braces 7974
- Goshev, G. A.  
Deformation of the water surface behind a hydrofoil of finite span 2429
- Gosho, Y.  
Effect of electric field on natural frequency of lateral vibration of electrostatic probe 1448
- Gosling, J. T.  
Satellite observations of interplanetary shock waves 3073
- Gosman, A. L.  
Thermodynamic properties of argon from the triple point to 300°K at pressures to 1000 atmospheres 2962
- Goswami, B.  
See Bhattacharya, R. N. 2169
- Goswami, T. K.  
Flow behavior of non-Newtonian fluid: A typical problem in the petroleum industry 390
- Goszczynski, S.  
Computation of continuous reinforced concrete beams based on concept of exponential stiffness changes 3602
- Goto, H.  
A statistical study of the maximum ground motion in strong earthquakes 7567
- Gotoh, K.  
Hydromagnetic stability of free flows at large Reynolds numbers: Part 1, Free boundary layer between two uniform streams  
Stability of Blasius flow  
Hydromagnetic stability of free flows at large Reynolds numbers: Part 3, Free boundary layer with small magnetic Prandtl number 4807, 7301, 7481
- Gottenberg, W. G.  
An experimental study of a nonlinear viscoelastic solid in uniaxial tension 3365
- Gottschlich, C. F.  
See Chu, T. K. 1447
- Gotusso, L.  
Application of Ritz method to Mayer problems 6765
- Gou, P.-F.  
Interfacial and Love-type waves in materials with monoclinic elastic symmetry 7845  
See also Freudenthal, A. M. 5106
- Goudy, R. S.  
The indentation of a Newtonian fluid by a right circular cylinder 1193
- Goulard, R.  
See Nelson, H. F. 5521
- Gould, B. W.  
Sedimentation models for hydraulic design of clarifiers 6322
- Gould, P. L.  
Minimum weight design of hyperbolic cooling towers 354  
Hyperboloids of revolution supported on columns 6898
- Gour, P. C.  
See Bhargava, R. D. 5071
- Gourdine, M. C.  
See Collier, E. L. 1441
- Gourlay, A. R.  
The equivalence of certain alternating direction and locally one-dimensional difference methods  
A classification of split difference methods for hyperbolic equations in several space dimensions 1635, 1636
- Gouse, S. W., Jr.  
Aerodynamic drag on vehicles in tunnels 5587
- Govindarajan, R.  
Model study of inlet conditions of an axial flow pump 4674
- Gowda, C. V. B.  
Performance of miniature resistance strain gages in low-cycle fatigue 5351
- Goyal, J. K.  
See Singh, D. V. 6722
- Goyer, G. G.  
Laser techniques for observing the upper atmosphere 3217
- Graber, H.  
The heat transfer at laminar flow along a flat plate with the heat flux distribution  $q_w \sim x^m$  8992
- Grabowsky, W. R.  
Performance of a 500-kjoule MHD wind tunnel 6590
- Grace, F. I.  
See Foltz, J. V. 7867
- Grace, J. L., Jr.  
See Bohan, J. P. 717
- Grace, R. A.  
Ocean wave forces on a subsurface sphere 4545
- Gracon, T. J.  
A decision procedure for selecting among proposed automatic analog computer patching systems 5918
- Graczyk, Cz.  
Investigations on dynamic properties of thermometer probes 6479
- Gradowczyk, M. H.  
On the accuracy of the Green-Rivlin representation for viscoelastic materials 2585

- Gradowczyk, M. H.** (*Continued*)  
 Characterization of linear viscoelastic materials tested in creep and relaxation 7720
- Graefe, P. W. U.**  
*See Baker, R.* 719
- Graefe, V.**  
 Oceanographic profiling with improved vertical resolution 9178
- Graf, E. D.**  
 Compaction grouting technique and observations 4366
- Graf, K. A.**  
*See Guthart, H.* 9865
- Graff, P.**  
 An exact turbulence theory for the Burgers equation 2138
- Graffi, D.**  
 On the uniqueness theorem of the dynamics of viscoelastic bodies 3364
- Grafton, S. B.**  
*See Freeman, D. C., Jr.*  
*Chambers, J. R.* 1257  
 9716
- Graham, D. J.**  
*See Goldstein, R. J.* 8196
- Graham, J. M. R.**  
 The effect of end-plates on the two-dimensionality of a vortex wake 2862
- Graham, P. H.**  
 Analysis of dilatational failure of heterogeneous materials by reaction rate theory 5344  
*See also Henderson, C. B.* 8705
- Graham, R. W.**  
 Penetration model explanation for turbulent forced-convection heat transfer observed in near-critical fluids 1322
- Grahn, A. R.**  
 Design and evaluation of a new linear thermistor velocity probe 9213
- Graiff, F.**  
 Energy and frame of reference in general relativity 5975
- Gramenitskii, V. N.**  
 Free-piston differential gages 514
- Gran, S.**  
 Transformations of the frequency characteristics of the auditory canal 2373
- Grandori, G.**  
 Some consequences of earthquake effect dispersion 3191
- Granju, J.-P. P.**  
*See Garrison, J. M.* 4540
- Granovskii, M. B.**  
*See Lukomskaia, A. I.* 7936
- Grant, F.**  
*See van Heerden, W. L.* 268
- Grantham, W. D.**  
 Simulator study of coupled roll-spiral mode effects on lateral-directional handling qualities 6419
- Graper, E. B.**  
*See Naiditch, S.* 1341
- Grass, A. J.**  
 Initial instability of fine bed sand 8838
- Gratsinskiy, V. G.**  
 The effect of a fracture on a head-wave field 230
- Grattan, E. O'D.**  
*See Starks, H. J. H.* 366
- Graupe, D.**  
 Estimation of inaccessible state variables for processes with a priori unknown parameters 6791
- Gravina, P.**  
 On the calculation of the rotating circular disk with symmetrical radial ribs 6051
- Gray, B. F.**  
 The present theoretical position in explosion theory 2354
- Gray, D. H.**  
 Electrochemical hardening of clay soils 9500
- Gray, H. R.**  
 Hot-salt stress-corrosion of a titanium alloy under a simulated turbine-engine compressor environment 9542
- Gray, P.**  
*See Maczek, A. O. S.*  
*Maczek, A. O. S.* 9772  
 9773
- Gray, R. T.**  
 Effect of design changes in railway catenary-pantograph systems on power collection at high speed 3293
- Grayley, M. E.**  
 The limitations of wide strut analyses for determination of the optimum proportions of panels having unflanged integral stiffeners 8586
- Greaves, M. J.**  
*See Nickola, W. E.* 7919
- Greben, E. S.**  
 Contribution to slender-beam theory 4248
- Greber, I.**  
 Linearized analysis of flow of incompressible laminar jet contained between side walls 6335
- Grebnev, V. K.**  
 Effect of the radial clearance on the operation of turbine stages 581
- Grechanichenko, Yu. V.**  
*See Goloshechapo, B. N.* 505
- Grechikhin, L. I.**  
 Investigation of physical processes in an electrode-discharge shock tube 7491
- Greco, F. I.**  
*See Cernuschi, F.* 15
- Grecov, D.**  
 Stability criteria of a flame burning in air-fuel counterflow 1395
- Green, A. E.**  
 A general theory of rods 145  
 A note on simple dipolar stresses 5987
- Green, A. J.**  
*See Murphy, N. R.* 4364
- Green, C. D.**  
 Integral equation methods 5899
- Green, D. R.**  
 High speed thermal image transducer for practical NDT applications 8332
- Green, J. E.**  
 Reflection of an oblique shock wave by a turbulent boundary layer 5568  
 Short-cowl front-fan turbojets: Friction drag and wall-jet effects on cylindrical afterbodies 9712
- Green, M. S.**  
*See Vicentini-Missoni, M.* 7390
- Green, P. S.**  
 Differential ultrasonic visualization of impact fractures in glass-reinforced plastics 5345
- Green, R.**  
 Eccentrically loaded concrete columns under sustained load: Part 1 6252
- Green, R. E., Jr.**  
*See Henneke, E. G., II* 32
- Green, S. J.**  
 High-velocity deformation properties of polyurethane foams 1881
- Greenbaum, G. A.**  
 Postwrinkling behavior of a conical shell of revolution subjected to bending loads 9412
- Greenberg, J. M.**  
 On the existence, uniqueness, and stability of solutions of the equation  $\rho_0 X_{tt} = E(X_X)X_{XX} + \lambda X_{Xxt}$  6759
- Greenberg, R.**  
*See Bonner, W. D.* 7579
- Greene, A. B.**  
 Initial visual studies of piston-cylinder dynamic oil film behavior 3050
- Greene, B. E.**  
 Generalized variational principles in the finite-element method 4467
- Greene, G. A.**  
*See Mallory, H. D.* 9119
- Greenham, A. C.**  
*See Richards, B. P.* 7893
- Greenhow, J. N.**  
 The dependence of cutting force on feed and speed in orthogonal cutting with worn tools 1910
- Greenlee, W. M.**  
 Singular perturbation of eigenvalues 2457
- Greensite, A. L.**  
 Control theory: Vol. 2, Analysis and design of space vehicle flight control systems 6797
- Greenspan, D.**  
 Approximate solution of initial value problems for ordinary differential equations by boundary-value techniques 3274
- Greenspan, H. P.**  
 On the nonlinear interaction of inertial modes 3205  
 The theory of rotating fluids: Cambridge Monographs on Mechanics and Applied Mathematics 4562
- Greenspan, M.**  
 Radiation-induced acoustic cavitation: Apparatus and some results 9138
- Greenspon, J. E.**  
 Far-field sound radiation from randomly vibrating structures 5791

- Greenstadt, E. W.  
Correlated magnetic field and  
plasma observations of the Earth's  
bow shock 3962
- Greenstein, T.  
Viscosity of dilute uniform suspen-  
sions of uniform spheres 9956
- Greenwood, D. T.  
Principles of dynamics 77  
See also Anderson, G. M. 630
- Greenwood, G. H.  
Free-flight measurements of pres-  
sure and heat transfer on the lee  
surface of a delta wing at incidence  
( $M = 1.0$  to  $3.6$ ) 9706
- Greenwood, J. A.  
Presentation of elastohydrody-  
namic film-thickness results  
A reexamination of EHL-film-  
thickness measurements 10010
- Greenwood, R. D.  
See Johnson, R. P. 4478
- Greenwood, T. F.  
See Lamb, J. P. 9696
- Gregory, E. N.  
Cracking behavior of shielded metal-  
arc welds in galvanized steel 5445  
Shielded metal-arc welding of  
galvanized steel 8009
- Gregory, R. D.  
Stress concentration around a  
loaded bolt in an axially loaded  
bar 102
- Greif, R.  
Infrared radiation transport: Exact  
and approximate results 2247  
See also Landram, C. S. 2249  
Chou, S.-C. 5274
- Greifinger, C.  
See Cole, J. D. 6709
- Greshilov, E. M.  
Spectral characteristics of the wall  
pressure fluctuations associated  
with boundary layer separation  
behind a projection on a smooth  
wall 6390
- Gribanov, V. F.  
See Ogibalov, P. M. 4031
- Gribkova, L. V.  
Strength of granules composed of  
brittle synthetic materials 8337
- Griego, R. J.  
Random evolutions, Markov chains,  
and systems of partial differential  
equations 778
- Grier, N. T.  
See Sommers, R. D. 7432
- Grierson, D. E.  
See Cohn, M. Z. 5381
- Griffin, D. S.  
See Goodier, J. N. 7744
- Griffin, R. E.  
Sensitivity analysis of discrete filter-  
ing and smoothing algorithms 7654
- Griffin, W. S.  
A fluid-jet amplifier with flat satura-  
tion characteristics 4187
- Griffith, B. J.  
Correlation of mass injection drag  
data for slender cones at hyper-  
sonic speeds 2926
- Griffith, J. C.  
See Cunningham, D. M. 6219
- Griffith, P.  
See Shiralkar, B. S. 561
- Griffith, W. C.  
Radiation gas dynamics in the  
shock tube 6499  
See also Bershader, D. 469
- Griffiths, D. J.  
Urethral elasticity and micturition  
hydrodynamics in females 5884
- Griffiths, R.  
The fracture energy of some epoxy  
resin materials 9525
- Griffiths, R. T.  
Differential boundary-layer separa-  
tion effects in the flow over a  
rotating cylinder 6393
- Grigolyuk, E. I.  
On the justification of equations for  
triple-layered plates of nonsym-  
metric structures with a rigid fill-in 993  
Flutter of three-layer cylindrical  
shells 2331  
Theory of viscous elastic multilayer  
shells with rigid fillers under finite  
deflections 5180  
Use of the variational principle in  
stability problems of shells under  
creep conditions 6004  
Action of an acoustic pressure wave  
on a hollow spherical shell 7348
- Grigolyuka, E. I.  
See Aleksandrova, A. Ya. 938
- Grigorenko, Ya. M.  
Asymmetric deformations of iso-  
tropic and anisotropic shells of  
revolution 6907
- Grigorev, A. M.  
Ionization vacuum gage for use in  
the range  $10^{-10}$ - $10^{-1}$  torr 3815
- Grigorev, E. T.  
Errors in determining the natural  
frequency of vibrations in ma-  
chines 9463
- Grigorev, O. D.  
On one class of problems for granular  
materials with variable cohesion 5092
- Grigorev, V. P.  
Extending the life of bolted joints  
by using interference fits 9621
- Grigorev, Yu. M.  
Unsteady conductive heat transfer  
for bodies in an infinite medium 8189
- Grigorjan, A. A.  
Determination of the bearing ca-  
pacity of friction piles driven in  
soils of first degree of moisture  
sensitivity 2742
- Grigoryan, A. A.  
Testing a large-panel house of yield-  
ing on slumping soils 2746  
Settlement of loess soils under  
hydrodynamic pressure 4554
- Determination of the bearing ca-  
pacity of a driven friction pile in  
soils of type I slump proneness 6147
- Grigull, U.  
Progress in heat and mass transfer:  
Vol. 1 9024  
See also Meyer-Pittroff, R. 6471
- Grilikhes, V. A.  
A method for calculating the solar  
flux distribution in solar receivers 7582
- Grimer, F. J.  
The strengths of cements reinforced  
with glass fibers 5393
- Grimshaw, E. R.  
See MacNaughton, J. D. 3999
- Grimshaw, R.  
Slow time-dependent motion of a  
hemisphere in a stratified fluid 7193  
On steady recirculating flows 7199
- Grinberg, G. A.  
Transient operation of thermo-  
electric cooling devices 8183
- Grindei, I.  
Axisymmetric thermal stresses in  
isotropic cylindrical bodies of  
finite length 674
- Grindell, A. G.  
See Hammitt, F. G. 2845
- Grioli, G.  
On the thermodynamic potential of  
Cosserat continua 5061
- Grishchenko, E. K.  
Resonance frequencies of piezo-  
electric semiconductor transducers 5277
- Grishin, A. M.  
Linearization of the thermal explo-  
sion equation and the stability of  
its solutions for boundary condi-  
tions of the third kind 1471  
Effect of viscosity on the self-igni-  
tion of a reacting moving mixture 8232
- Grishin, S. D.  
Combustion stability of a powder  
burning in a semiconfined space 8240
- Grodzovskii, G. L.  
Mechanics of low-thrust spaceflight 7514
- Grodzovsky, G. L.  
Variational problems in space flight  
mechanics 8298
- Groesbeck, D. E.  
See Lewis, J. P. 3880
- Grolmes, M. A.  
Propagation characteristics of com-  
pression and rarefaction pressure  
pulses in one-component vapor-  
liquid mixtures 8138
- Groman, M. B.  
The misalignment of ball thrust  
bearings 3236
- Gromov, V. G.  
Chemically nonequilibrium laminar  
boundary layer in dissociated air  
Algebra of Volterra operators and its  
application to problems of visco-  
elasticity 5999
- Grootenhuis, P.  
Vibration control with viscoelastic  
materials 2701

- Grootenhuis, P. (*Continued*)  
The control of vibrations with viscoelastic materials 8627
- Gropengiesser, H.  
On the use of freon in supersonic wind tunnels 2185
- Grosche, F.-R.  
Measurements of the noise of air jets from slot nozzles with and without shields 4877
- Gross, E. P.  
Space-time correlation functions for the Enskog dense gas theory 2960
- Gross, J.  
See von Zahn, U. 1554
- Gross, J. F.  
See Dewey, C. F., Jr. 3733
- Gross, J. H.  
The effect of strength and thickness on notch ductility 8745
- Grossberg, S.  
On learning, information, lateral inhibition, and transmitters  
Some networks that can learn, remember, and reproduce any number of complicated space-time patterns: Part 1 4130
- Grosskamp, M.  
See Doring, H. 7175
- Grossman, L. M.  
Thermodynamics and statistical mechanics 4695
- Grossman, O. I.  
Method for determining the dynamical characteristics of polymeric materials 7948
- Grossman, P. L.  
Nonlinear vibrations of shallow spherical shells 1839
- Groszek, A. J.  
See Giltrow, J. P. 9196
- Grounes, M.  
A reaction-rate treatment of the extrapolation methods in creep testing 1730
- Grover, G. K.  
Optimum response of a main system coupled to a two-degree damper analyzed by equivalent method 8631
- Grow, J. W.  
See Campbell, J. F. 516
- Gruat, J.  
See Viera da Silva, R. C. 8037
- Grubin, A. N.  
Analysis of the stressed state arising in conditions of plastic strain in the case of tri-axial extension 8538
- Grudev, I. D.  
Investigation of the oscillatory system of an astronomical clock 5211
- Grundmann, H.  
A method of structural statics for approximate analysis of arch-like frame works 1127
- Grundy, P.  
Shakedown of bars in bending and tension 3587
- Minimum cost design of portal frame buildings 9590
- Grundy, R. E.  
Steady cylindrical expansion of a monatomic gas into vacuum 8083  
Unsteady spherically symmetric expansion of a fixed mass of gas into vacuum 8897
- Gruzdev, Iu. A.  
Multimoment equilibrium theory of thick plates 4270
- Gruzdev, V. A.  
Calorimetric methods for measuring small gas flows 3821
- Gubanova, I. I.  
See Panovko, Ya. G. 7779
- Gubarewska, W.  
Review on investigation of fracture in steel 3543
- Gubbins, K. E.  
Free volume theory for viscosity of simple nonpolar liquids: Part 1, Pure components; Part 2, Mixtures 9778
- Gudehus, G.  
Remarks on variational methods in soil mechanics analysis of the plane problem 1059  
On the calculation of plane strain processes in dry sand 5298
- Guderley, K. G.  
Approximation for swirl flows in the vicinity of the throat of a Laval nozzle 7253
- Gudimenko, B. O.  
On a numerical method of determining the parameters of dynamic systems 5000
- Gudkova, L. F.  
See Torner, R. V. 389  
Torner, R. V. 2044
- Guelin, P.  
A numerical integration as introduction to the simulation of nonlinear rheologic behavior 2829
- Guen, F.  
On the equations of motion of nonholonomic mechanical systems in Poincare-Chetaev variables 3343
- Guenoche, H.  
Contribution to the study of the hypersonic flow of a gas in nonvibrational equilibrium over a wedge 8068
- Guentert, D. C.  
Study of Brayton cycle power generation system using SNAP-8 nuclear reactor as an energy source 9112
- Guenther, A. H.  
See Asay, J. R. 663  
Asay, J. R. 4024
- Guenther, R. B.  
Newton-Cotes formulae in n-dimensions 8445
- Guha, D. K.  
Suspension of solids by bubble agitation 5834
- Gugliuzza, T. A.  
Gear design and laboratory experience—marine gas turbine propulsion 9193
- Guiasu, S.  
Nonconservative statistical mechanics for a dissipative system 9767
- Guillon, M.  
Stabilization in position of hydraulic and electrohydraulic controls: Part 2 2526
- Guinn, T.  
Boundary arcs for a class of differential games 5041
- Guins, V. G.  
Flow characteristics of butterfly and spherical valves 404
- Gukhman, A. A.  
Effect of large negative pressure gradients upon the structure of turbulent flow 2900
- Gukild, I.  
See Hofsoy, A. 336
- Gukov, V. M.  
See Rivkin, S. L. 2961
- Gul, V. E.  
See Rybalov, N. E. 280
- Guliaev, Iu. P.  
On the unloading wave in materials with delayed yielding 3489
- Gulik, V. A.  
Contact between a support and plunger block fitted with roller bearings 8802
- Gulkanian, N. O.  
See Babloyan, A. A. 4226
- Gundersen, R. M.  
The decay of a magnetohydrodynamic shock wave 2322  
Simple wave solutions of symmetric hyperbolic systems 3278  
Steady plane magnetohydrodynamic flow 6544  
A nonuniform shock wave subjected to an oblique magnetic field 6586  
Steady flow of a finitely conducting compressible fluid 8263
- Gundlach, W. R.  
New possibilities of applying hollow guide vanes to improve the efficiency of a turbo-set 5725
- Gunness, R. C., Jr.  
Stability of transient natural convection 5662
- Gunther, R.  
Mathematical model for calculating the heat release of nonluminous radiation flames in furnaces 6529
- Gupalo, Yu. P.  
See Buevich, Yu. A. 470
- Gupta, A. K.  
Locus of the image of a point-object due to liquid surfaces swept over by waves 6431  
See also Gosain, N. 7974

- Gupta, A. S.  
Dispersion of soluble matter in the hydromagnetic laminar flow between two parallel plates 590  
Combined free and forced convection effects on the magnetohydrodynamic flow through a channel 3056  
Transverse waves induced by a disk oscillating about a state of steady rotation in magnetohydrodynamics 6554
- Gupta, B. K.  
The development and use of a force-moment transducer 3571
- Gupta, B. L.  
See Rastogi, R. P. 2298
- Gupta, K. C.  
Excitation of bulk-wave on columns of magnetized plasma 3071
- Gupta, K. G.  
See Feingold, A. 9005
- Gupta, K. K.  
The bending of flat plate structures with rectangular symmetry 2624
- Gupta, L. R.  
See Chandrasekaran, A. R. 7834
- Gupta, R. C.  
Flow behavior of power law fluids in the entry region of a circular pipe 2117
- Gupta, R. P.  
See Agrawal, S. K. 3409
- Gupta, S. C.  
See Bhargava, R. D. 844  
Bhargava, R. D. 2563  
Bhargava, R. D. 2572  
Dodd, C. W. 4991  
Gibson, G. A. 7680
- Gupta, S. K.  
See Bhatnagar, N. S. 6855
- Gupta, Y. P.  
See Chandrasekaran, A. R. 7834
- Gura, I. A.  
An algebraic solution of the state estimation problem 3308
- Gurashev, V. N.  
Evaluating the tendency of cast steels to brittle failure 9523
- Gurel, O.  
Dynamics of cancerous cells 3245  
Stability via Lyapunov's second method 4166  
Marker layout problem via graph theory 8439
- Gurev, A. V.  
The mechanism of plastic deformation of polycrystalline alloys in the initial micro-yield range 1743  
Microhardness under small loads 5370
- Gurevich, I. G.  
A quasi-stationary relation for the capillary-porous elements of chemical reactors 1417
- Gurfinkel, G.  
Longitudinally restrained reinforced concrete beams 5399
- Gurgoze, I. T.  
See Erdogan, M. E. 6301
- Gurtin, M. E.  
A general theory of heat conduction with finite wave speeds 1315  
Extrinsically induced acceleration waves in elastic bodies 3482  
See also Chen, P. J. 2221  
Day, W. A. 3853
- Gurtman, G. A.  
See Peck, J. C. 6996
- Gurvich, A. K.  
Coordinate scale for ultrasonic flaw detectors 319
- Gurvich, A. S.  
The determination of turbulence characteristics from light scattering experiments 1244
- Gurvich, I. I.  
Theory of a spherical emitter of transverse seismic waves 712  
Seismic impulses from an explosion in a homogeneous absorbing medium 4059
- Gusarov, A. A.  
Insensitive speeds in the balancing of a flexible rotor by means of uniformly distributed balancing mass 216
- Guseinov, N. M.  
Simulation of four-bar hinged mechanisms according to a given law of motion 5439
- Gusein-Zade, M. I.  
On the derivation of a theory of bending of layered plates 5185  
Formulation of the theory of flexure of laminated plates 8568
- Gusakov, A. P.  
Resistance to cyclic elastic-plastic strain in the case of elevated temperatures 681
- Gusev, A. V.  
See Bogorodskii, V. V. 4870
- Gusev, E. K.  
See Antufev, V. M. 2271
- Gusev, G. V.  
Accumulation of macro-shears in the case of strains of variable sign in duralumin 5131
- Gusev, V. A.  
See Verba, M. I. 2401
- Gusev, V. N.  
One exact solution of one-dimensional Navier-Stokes equations 7206  
See also Galkin, V. S. 2881
- Gusev, Yu. M.  
Experimental study of the effect of ring foundation width on settling and inclination movements 254
- Guskov, V.  
The effect of drawbar pull on the rolling resistance of track-laying tractors 2815
- Gustafson, A.  
A method for solving problems of nonshallow shells 7765
- Gustafson, R. D.  
Nonlinear optimal control by use of extra linear states to represent nonlinearities 3337
- Gustafson, W. A.  
Effects of curvature on laminar boundary layers in sink-type flows 5536
- Gustafson, W. C.  
Analysis of skewed composite girder bridges 6262
- Guthart, H.  
Interpretation of scalar correlation coefficients 9865
- Gutierrez, O. A.  
Experimental cavitation and flashing of potassium flowing adiabatically through a Venturi sized as a boiler inlet 7450
- Gutman, E. M.  
Thermodynamics of the mechanico-chemical effect: Part 2, The range of operation of nonlinear laws 6461  
See also Karpenko, G. V. 2763
- Gutowski, R.  
The behavior of the solutions of equations of motion of mechanical systems with program constraints 5969
- Guterman, M.  
An operational method in partial differential equations 8421
- Gutti, S. R.  
Behavior of small gas bubbles in accelerated liquid 2404
- Guz, A. N.  
Cyclic-symmetrical problems in spherical shells weakened by cut-outs 5161  
On the stability of three-dimensional elastic bodies 5198  
The solution of basic boundary problems of the theory of steady state vibrations for an infinite plane with circular openings 5225  
Solution of two-dimensional doubly-periodic problems of the theory of steady vibrations of viscoelastic bodies 9425  
See also Golovchan, V. T. 5251
- Gvozdev, A. A.  
Exact linear theory of creep in concrete 2593
- Gvozdeva, L. G.  
Mach reflection of shock waves in real gases 4590
- Gyarmathy, G.  
Optical measurements of mass density in a high-speed, confined, gaseous vortex 7377
- Gyrog, D. A.  
See Fletcher, L. S. 7411
- Gyurki, J.  
See Csaki, F. 7665

## H

- Haas, I. J.  
See Chen, C. F. 1649
- Haas, R. S.  
See Fain, G. 9964
- Haas, S. L.  
Structural synthesis of a four-bit binary adding mechanism 3632

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Habara, H.  
Compression test of plasticine as a model of forging material 6170
- Haber, S.  
See Hetsroni, G. 4786
- Haberman, C. M.  
Vibration analysis 8600
- Habermayer, M.  
Stability test of linear control systems with dead time by digital computer 3317
- Haberstroh, R. D.  
Application of a simplified velocity profile to the prediction of pipe-flow heat transfer 3007
- Habetler, G. J.  
See Di Prima, R. C. 4141
- Habib, I. S.  
See Greif, R. 2247  
Landram, C. S. 2249
- Habicht, P. R.  
Normalized versus unnormalized high-frequency resistance-welded 5LX-52 line pipe 1146
- Hacker, T.  
Natural dynamic stability of the aircraft: Part 1, Mathematical definition in the literature and some comments 1254  
Rapid incidence adjustment for flight with variable speed and altitude 1255  
Problems of optimal flight stabilization 6810
- Haddley, G. P.  
The physics of flow noise 1475
- Hadeler, K. P.  
Variational principles for nonlinear eigenvalue problems 774
- Hadjidimos, A.  
On some high accuracy difference schemes for solving elliptic equations 9257
- Hadzhyisky, M. B.  
See Rotach, V. Ya. 3327
- Haga, P. B.  
PWR containment structures design experience 9596
- Haggard, J. B., Jr.  
Unstable bubble motion under low gravitational conditions 7210
- Hagiwara, Y.  
Service load and fatigue strength: Part 11, Effects of gradually increasing or decreasing load on the initiation and propagation of fatigue crack 3545
- Haglage, T. L.  
Scratch strain gage evaluation 309
- Hahn, G. T.  
Criteria for crack extension in cylindrical pressure vessels 4493
- Hahn, M.  
Experimental investigation of separated flow over a cavity at hypersonic speed 3747
- Hahn, O. M.  
Stability problems of wood truss bridge 9593
- Hahn, W.  
See Schilg, G. 5726
- Hahne, E.  
See Grigull, U. 9024
- Hahne, E. W. P.  
Heat transfer and natural convection patterns on a horizontal circular plate 7420
- Haigh, C. P.  
See Ponter, A. B. 1359  
Ponter, A. B. 4747
- Hails, R. L.  
See Heins, C. P., Jr. 6909
- Haimson, B.  
Hydraulic fracturing in porous-permeable materials 4369
- Haindl, K.  
The protection of low head irrigation pipe-networks against water hammer effects 1274
- Haines, D. J.  
An experimental method of determining thermal strains 4425
- Haines, L. H.  
Internal and external stability of linear systems 5014
- Hajdin, N.  
See Kollbrunner, C. F. 2014  
Kollbrunner, C. F. 9373
- Hakalehto, K. O.  
The behavior of rock under impulse loads: A study using the Hopkinson split bar method 7043
- Hakimi, S. L.  
Analysis and design of communication networks with memory 1688
- Hakkinen, R. J.  
Merging of uniform shear flows at a trailing edge 476
- Haldavnekar, D. D.  
See Soundalgeker, V. M. 3058
- Hale, J. K.  
Dynamical systems and stability 1693
- Hales, A. L.  
The travel times of S and SKS 9165  
See also Bloch, S. 3188
- Halikas, G.  
The viscosity of water and of blood in small diameter capillary tubes 4982
- Hall, A. S.  
Joint deformation in building frames 5406
- Hall, A. S., Jr.  
See Garrett, R. E. 2028
- Hall, C. R., Jr.  
See Mueller, T. J. 9753
- Hall, D. E.  
Diffusion, scattering, and acceleration of particles by stochastic electromagnetic fields 1435
- Hall, H.  
See Cansdale, R. 9720
- Hall, I. H.  
Deformation of solids 7697
- Hall, M. G.  
The boundary layer over an impulsively started flat plate 3752
- Hall, W. J.  
Studies of welding procedure: Phase IV 3653
- Hallam, M. G.  
See Soliman, J. I. 6980
- Haller, P.  
Method for the dehumidification of the masonry in tall buildings 363
- Halley, J. W.  
Theory of vortex resonance in liquid helium 3960
- Halling, J.  
An experimental study of some of the factors affecting the contact conditions and the slip between a rolling ball and its track 2442
- Halpin, J. C.  
The laminate approximation for randomly oriented fibrous composites 5088  
Ribbon reinforcement of composites 5997
- Halstead, C. J.  
Photometric methods for determining radical concentrations in hot gases in nozzles 3825
- Halton, J. H.  
A retrospective and prospective survey of the Monte Carlo method 8434
- Ham, I.  
See Bhattacharyya, A. 7895
- Ham, N. D.  
Aerodynamic loading on a two-dimensional airfoil during dynamic stall 2147
- Hamada, M.  
Numerical solutions of two-dimensional elastic, plastic problems by conformal mapping and finite-difference method: Part 3, Elastoplastic torsion of circumferentially grooved shafts 840
- Hamamoto, Y.  
See Ohigashi, S. 511
- Hambly, E. C.  
A new true triaxial apparatus 9506
- Hamelink, J. H.  
See Frea, W. J. 9033
- Hamer, H. A.  
Effect of gravitational-model selection on accuracy of lunar orbit determination from short data arcs 4846
- Hamernik, R. P.  
See Dosanjh, D. S. 7246
- Hammad, H. Y.  
Future of ground water in African Sahara desert 9972
- Hammerlin, G.  
The accuracy of the numerical differentiation of analytic functions by means of contour integration 7645
- Hammitt, F. G.  
1969 cavitation forum 2845  
Damage due to cavitation and subcooled boiling bubble collapse 6317  
See also Olson, H. G. 7176

- Hampe, E.**  
Contribution to the design of cylindrical, conical and spherical built-up shells for the construction of silos, tanks and towers 1778
- Hampp, W.**  
Walzlagerungen: Berechnung und Gestaltung (Journal bearings: Computation and design) 373
- Hamrock, B. J.**  
Optimization of self-acting thrust bearings for load capacity and stiffness 10011
- Hamza, M. H.**  
Continuous system modeling using a digital computer 28
- Hamzah, A. M. O.**  
See Johns, B. 5601
- Hanagud, S.**  
Elastic-plastic impact of plates 6117
- Hanasaki, S.**  
See Tsueda, M. 3531  
Hasegawa, Y. 3532
- Hancock, G. J.**  
See Nangia, R. K. 7324
- Handelman, G. H.**  
Diffraction of horizontal shear waves by a half plane 5266
- Handelsman, M.**  
Some necessary conditions for optimal fixed-time powered transfers with multiple coasts and thrusts between circular orbits 3099
- Handraluca, V.**  
See Szekely, I. 2031
- Hanel, G.**  
The real part of the mean complex refractive index and the mean density of samples of atmospheric aerosol particles 1522
- Hanks, R. W.**  
On the theoretical calculation of friction factors for laminar, transitional, and turbulent flow of Newtonian fluids in pipes and between parallel plane walls 396  
A theory of laminar flow stability 3743
- Hanly, R. D.**  
See Chyu, W. J. 2912
- Hanna, M. M.**  
See Dawoud, R. H. 7969
- Hannant, D. J.**  
Failure criteria for concrete in compression 1118
- Hanrahan, F. J.**  
Structural wood 8790
- Hanratty, T. J.**  
Study of turbulence close to a solid wall 6401
- Hansberry, J. W.**  
A theoretical study of the elastic behavior of two normally intersecting cylindrical shells 5156
- Hansell, W. C.**  
See Driscoll, G. C., Jr. 4484
- Hansen, D.**  
See Washo, B. D. 6485
- Hansen, J.**  
Horizontal jet dilution studies by use of radioactive isotopes 410
- Hansen, J. E.**  
Exact and approximate solutions for multiple scattering by cloudy and hazy planetary atmospheres 2423
- Hansen, R. H.**  
See Schonhorn, H. 8818
- Hansen, R. J.**  
Push-up steel construction 6266
- Hansen, T. C.**  
Physical composition of hardened portland cement paste 9577
- Hanson, F. B.**  
Kinetic description of the propagation of plane sound waves in a diatomic gas 6642
- Hanson, M. P.**  
Tensile and cyclic fatigue properties of graphite filament-wound pressure vessels at ambient and cryogenic temperatures 3616  
Static and dynamic fatigue behavior of glass filament-wound pressure vessels at ambient and cryogenic temperatures 7139
- Hanson, N. W.**  
See Carpenter, J. E. 3596
- Hanson, R. K.**  
Reflection of a shock wave into a density gradient 9662
- Happel, J.**  
See Greenstein, T. 9956
- Harada, M.**  
On the vortex flow in suction pipes 7192
- Harari, O.**  
See Baruch, M. 1811
- Harbaugh, J. W.**  
See Bonham-Carter, G. 35
- Harbold, M. L.**  
Direct experimental verification of creeping waves 6114
- Hardin, J. C.**  
Effects of temperature-profile variation on refraction of sound by jet flow 5799
- Hardison, D. L.**  
See Goring, G. E. 4717
- Hardy, G. H.**  
See Watson, D. M. 4849
- Hardy, K. R.**  
Radar investigations of convective patterns in the clear atmosphere 4940
- Hardy, W. C.**  
A recursion method of solution for occupancy problems 2474
- Hargett, W. H.**  
See Gugliuzza, T. A. 9193
- Hargrove, L. E.**  
Effects of ultrasonic waves on Gaussian light beams with diameter comparable to ultrasonic wavelength 3140
- Haridasan, T. M.**  
Molecular model for localized modes in cubic crystals 2700
- Harker, J. H.**  
The calculation of the temperature and composition of flame gases 2293  
Electrically augmented flames: A comparison of energy costs with oxy-hydrocarbon flames for high temperature heating 3036
- Harleman, D. R. F.**  
Salinity intrusion effects in estuary shoaling 406
- Harley, D. L.**  
See Huang, A. B. 7265
- Harman, T. C.**  
Thermo-electric and thermomagnetic effects and applications 7386
- Harnett, L. N.**  
See Muntz, E. P. 4588
- Harpavat, G.**  
See Lessen, M. 4614
- Harper, E. Y.**  
Diffraction of a shock wave by a serrated interface between dissimilar solids 2734
- Harper, G. N.**  
Computer applications in architecture and engineering 23
- Harr, M. E.**  
Euler beams on a two parameter foundation model 5141  
See also Head, W. J. 9199
- Harrington, R. F.**  
Computation of Laplacian potentials by an equivalent-source method 7641
- Harrington, W. J.**  
See Sox, J. L. 4137
- Harris, A. J.**  
High strength concrete: Manufacture and properties 4479
- Harris, B. J.**  
Local failure of plastic-foam core sandwich panels 941
- Harris, C. J.**  
Experimental identification of shock tunnel flow regimes 2192
- Harris, E. H.**  
See Moffatt, C. A. 5879
- Harris, E. K., Jr.**  
See Bird, R. B. 392
- Harris, H. G.**  
Stress and deflection analysis of mechanically fastened joints 8007
- Harris, J. H.**  
An experimental facility for high speed underwater towing research 4086
- Harrisberger, L.**  
See Soni, A. H. 8004
- Harrison, B. K.**  
Simplified equations for relativistic rotating perfect fluids with axial symmetry 8850
- Harrison, H. B.**  
See Lee, I. K. 8675
- Harrison, T.**  
The effect of transverse straps on the bending and torsional behavior of a thin-walled prismatic beam of open cross-sectional profile 909

- Harrison, W.**  
Empirical equation for longshore current velocity 2417
- Hart, G. C.**  
Three-dimensional dynamic analyses of two Colombian high-rise buildings 2816
- Hart, J. A.**  
Contribution to the theory of surface heat transfer measurement by transient techniques 5658
- Hart, J. D.**  
Recurrent nature of Lagrange multipliers for optimal low-thrust Earth-Jupiter transfers 6612
- Hart, W. E.**  
Surface irrigation hydraulics-kinematics 3200
- Hartland, S.**  
The shape of a fluid drop approaching an interface 2060
- Hartmann, A.**  
Experimental investigation of mixing in by-pass turbo-jet engines 584
- Hartmann, F.**  
On a new earth pressure theory 259
- Hartranft, R. J.**  
Uniqueness of the concentrated-load problem in the linear theory of couple-stress elasticity  
The use of eigenfunction expansions in the general solution of three-dimensional crack problems 5062  
6842
- Hart-Smith, L. J.**  
Buckling of thin cylindrical shells under uniform axial compression 8592
- Hartung, F.**  
Hydraulic model studies and investigations for the reconstruction of the Isar Weir VI in Munich 8038
- Haruyama, M.**  
See Yamanouchi, T. 7874
- Harvald, Sv. Aa.**  
Wake and thrust deduction at extreme propeller loadings 1563
- Harvey, J. M.**  
See Brown, J. C. 8571
- Harvey, W. D.**  
Fluctuating properties of turbulent boundary layers for Mach numbers up to 9 2128
- Harwood, R. A.**  
See Gustafson, R. D. 3337
- Hascall, H. L. C.**  
Instrument arrays for deep submersibles 8380
- Hasegawa, S.**  
See Echigo, R. 2252  
Fujita, Y. 6486  
Yoshioka, K. 6491
- Hasegawa, T.**  
Acoustic-radiation force on a solid elastic sphere 4879
- Hasegawa, Y.**  
On tool wear in the intermittent cutting of reinforced plastics: Part 2, Rheological study of the action of the abrasive reinforcement on the tool wear 3532  
On tool wear in the intermittent cutting of reinforced plastics: Part 3, Effect of the cutting fluid on the tool wear 3533  
See also Tsueda, M. 3531
- Hashimoto, H.**  
Progressive waves on swirling cavity flow in a circular pipe 6435
- Hashimoto, K.**  
Temperature and concentration distributions in fixed-bed catalytic reactors: Comparison of calculated with experimental results 9022
- Hashin, Z.**  
See Rosen, B. W. 7397
- Hasimoto, H.**  
Note on hydromagnetic stability of three-dimensional parallel flow 4806
- Haslam, E. T.**  
See Moffatt, C. A. 5879
- Hasofer, A. M.**  
A rational reduction formula for live loads 4500  
Statistical model for live floor loads 9592
- Hassan, H. A.**  
Drift velocities and thermal flux vectors in a seeded plasma with magnetic fields 6573
- Hassan, K.**  
On the determination of the buckling length of frame columns 3422
- Hassan, S. D.**  
See Nayfeh, A. H. 4692
- Hasseem, H. M.**  
See Hussainy, S. A. 7056
- Hasselman, D. P. H.**  
Griffith flaws and the effect of porosity on tensile strength of brittle ceramics 4386  
Analysis of the strain at fracture of brittle solids with high densities of microcracks 4387  
Unified theory of thermal shock fracture initiation and crack propagation in brittle ceramics 7554
- Hasson, D.**  
See Dombrowski, N. 6313
- Hassoun, I. A.**  
Stress in noncircular shafts 908
- Hastings, S. P.**  
An existence theorem for a problem from boundary-layer theory 5559
- Hata, S.**  
Analysis of higher-order non-linear systems subject to random signals 9277
- Hata, T.**  
Transient thermoelastic problem for a transversely anisotropic hollow cylinder with temperature-dependent properties 675  
Transient thermoelastic problem for a transversely anisotropic hollow sphere with temperature-dependent properties 7550
- Hatanaka, J.**  
Mass transfer from axisymmetric interfaces with tangential velocities 6515
- Hatcher, D. S.**  
Test of a reinforced concrete flat slab 3598
- Hathaway, M. E.**  
See McGehee, J. R. 2341  
Stubbs, S. M. 6438
- Hatherton, T.**  
The relationship between andesitic volcanism and seismicity in Indonesia, the Lesser Antilles, and other island arcs 4916
- Hatta, Y.**  
See Ohnuma, T. 9873
- Hau, T. C.**  
A study of the compression test for ductile materials 7933
- Haugen, R. L.**  
The turbulent, bounded wall-jet: A solution to the linearized equations 4623
- Hauptmann, E. G.**  
Temperature distribution in a thin rotating disk 2219  
A simple hot wire anemometer probe 1291
- Hausler, E.**  
Shadow optic measuring methods for the investigation of dynamical states of stress 7929  
See also Hartung, F. 8038
- Hautus, M. L. J.**  
Controllability and observability conditions of linear autonomous systems 6782
- Havard, D. G.**  
New equipment for cyclic biaxial testing 7091
- Havas, P.**  
Invariances of approximately relativistic Lagrangians and the center-of-mass theorem: Part 1 8500
- Havner, K. S.**  
The theoretical behavior of a polycrystalline solid as related to certain general concepts of continuum plasticity 126  
A path criterion for deformation plasticity theory 5103
- Hawkes, I.**  
Photoelastic load cells for civil engineering structures 8733
- Hay, N.**  
Comparison of predicted and measured wall temperatures in a turbulent boundary layer with arbitrary pressure gradients 6373
- Hayama, M.**  
The fracture of walls on shear spinning: Study on the spinnability of aluminum plates 273
- Hayashi, C.**  
Transformation theory as applied to the solutions of nonlinear differential equations of the second order 4143

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Hayashi, K.  
On the crack propagating mechanism and the microstructural change at the crack tip observed by X-ray micro-beam diffraction technique 3540
- Hayashi, M.  
See Irie, T. 2021
- Hayashi, S.  
Maritime meteorological summary of western North Pacific Ocean in winter 4950  
See also Mizoguchi, K. 357  
Otsuka, S. 4658
- Hayashi, T.  
On the elastic properties of a fiber-reinforced plate 2651  
On the determination of load eccentricity and initial deviation in the column compressive tests 2656  
Flowing fluid restricted by a damper installed in rectangular duct 7186  
Formation of dunes and antidunes in open channels 8840
- Hayashi, Y.  
See Katayama, K. 5696
- Hayday, A. A.  
Surface catalysis in dissociated, chemically frozen air boundary layers with variable transport properties 4618
- Haydl, H. M.  
Eigenvibrations of barrel-shaped thin shells 1845
- Hayduk, R. J.  
See Thomson, R. G. 2731
- Hayek, S. I.  
See Workman, G. 7538
- Hayes, B.  
Allowing for membrane action in the plastic analysis of rectangular reinforced concrete slabs 9584
- Hayes, J. G.  
Numerical approximation to functions and data, based on a conference organized by the Institute of Mathematics and Its Applications, Canterbury, England, 1967 8440
- Hayes, M.  
Static implications of the strong-ellipticity condition 5976  
The paucity of universal motions in thermoelasticity 7546
- Hayes, M. A.  
Propagation of sinusoidal small-amplitude waves in a deformed viscoelastic solid: Part 1 3490
- Hayhurst, D. R.  
A long narrow foil strain gage for special purposes 9548
- Haymes, R. C.  
Low-energy gamma radiation in the atmosphere at midlatitudes 5855
- Head, M. R.  
See Cham, T.-S. 459  
Patel, V. C. 2854  
Rogers, B. K. 4613  
Cumpsty, N. A. 5558
- Head, W. J.  
The development of a model to predict the erosion of materials by natural contaminants 9199
- Heading, J.  
Propagation in an inhomogeneous gyrational medium 595
- Heald, P. T.  
The fatigue growth of a disk-shaped crack 2755
- Healey, A. J.  
Constant speed oil-hydraulic drive is evaluated 3644
- Heap, M. P.  
See Edmondson, H. 9838
- Heard, W. L., Jr.  
See Bohon, H. L. 2332
- Hearle, J. W. S.  
On the theory of the mechanics of twisted yarns 904
- Hebaus, G. G.  
Crest losses for two-way drop inlet 4538
- Heckman, D.  
See Kirkpatrick, A. 600
- Hector, D. L.  
An integral representation for certain linearized magnetohydrodynamic flows in the plane 3060
- Hefner, J. N.  
See Goldberg, T. J. 7326
- Hegemier, G. A.  
On Michell trusses 333  
On linear ordinary differential equations with exponential coefficients 3272  
See also Shieh, R. C. 4324
- Heidelberg, L. J.  
Effect of Reynolds number on overall performance of a 6-inch radial bladed centrifugal compressor 5614
- Heidmann, M. F.  
Effect of steady velocities on the dynamic response of liquid jet atomization 2402
- Heilig, W. H.  
Diffraction of a shock wave by a cylinder 2883
- Heine, W.  
See Breakwell, J. V. 5765
- Heinrich, G.  
Rolling friction with axial shear 2431
- Heins, C. P., Jr.  
Behavior of stiffened curved plate model 6909
- Heinz, C.  
Hamilton's principle for viscous heat-conducting gases 3681
- Heinzer, A.  
Wake observations for oscillating cylinders 7219
- Heiser, W. H.  
See Fraim, F. W. 614
- Heithecker, G. L.  
See Holt, E. C. 4472
- Helfant, M. A.  
See Hlavac, P. J. 7425
- Heller, H. H.  
Acoustic technique for detection of flow transition on hypersonic re-entry vehicles 8904
- Heller, J.  
See Kokotovic, P. 61
- Heller, R. A.  
Interlaminar shear stress in sandwich beams 2622  
Load on structures 10028  
Behavior of structural materials 10029  
Tensile and compressive structures 10030
- Heller, S. R. Jr.  
Stress concentration factors for a rectangular opening with rounded corners in a biaxially loaded plate 5065
- Heller, W.  
Comparison of the methods of testing the brittle-fracture tendency of structural steels 7944
- Hellers, B.-G.  
Eccentrically compressed columns without tensile strength subjected to uniformly distributed lateral loads 4275
- Helliwell, B. J.  
The effect of composition on the susceptibility to stress corrosion of some wrought copper-base alloys 8727
- Helliwell, J. B.  
Self-similar piston problems with radiative heat transfer 2995  
See also Gordon, A. R. 2325
- Hellman, R. P.  
Comments on "monaural loudness functions under masking" 4875
- Hellwig, Z.  
On the measurement of stochastic dependence 9240
- Helmy, M. A.  
See Goode, C. D. 6254
- Hempel, P.  
Model studies on the influence of lift and drag on time-optimal ascent trajectories 2927
- Hempstock, T. I.  
See Atherley, G. R. C. 1602
- Hendershot, K. C.  
See Sheeran, W. J. 2294
- Hendershott, M. C.  
Impulsively started oscillations in a rotating stratified fluid 488
- Henderson, C. B.  
A comparison of reaction rate models for the fracture of solids 8705  
See also Graham, P. H. 5344
- Henderson, J. H.  
See Cooksey, R. A. 9266
- Henderson, L. F.  
The cellular structure of shock waves and detonation waves 5783
- Hendricks, R. C.  
Heat transfer and levitation of a sphere in Leidenfrost boiling 8223
- Henneke, E. G., II  
Light-wave/elastic-wave analogies in crystals 32

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Hennig, K.  
Axisymmetric stress and strain states of shells considering the shear and the stresses normal to the median surface 6043
- Henning, G. B.  
Amplitude discrimination in noise: Pedestal experiments, and additivity of masking 1480
- Henriquez, T. A.  
Calibration at high pressure of piezo-electric elements for deep-submergence hydrophones 6648
- Henry, A. S.  
See Root, L. W. 6098
- Henry, B.  
See Sidik, S. M. 4162
- Henry, J. R.  
Slamming of ships: A critical review of the current state of knowledge 9997
- Henry, T. A.  
See Dye, R. C. F. 1832
- Henrych, J.  
An approximate calculation of a cylindrical matrix applied to the explosive forming of vessels 3537
- Henshell, R. D.  
Transmission of vibration in beam systems 5218  
See also Dickinson, S. M. 209
- Henye, E.  
Nomographs for design of rectangular spread footings 8676
- Henzi, A.  
See Dally, J. W. 2768
- Herakovich, C. T.  
Elastic-plastic torsion of hollow bars by quadratic programming 107
- Herbert, M. V.  
A convergent nozzle for the standardization of thrust-rig measurements 3818
- Herbertson, J. G.  
See Barr, D. I. H. 1165
- Hergert, W. F.  
Rocket combustion stability monitoring by temporal radiometry 9041
- Hering, K.  
Differential thermal loading of a reinforced concrete cylinder with a cracked tension zone 341
- Hering, S.  
See Gunther, R. 6529
- Herkenrath, H.  
See Bahr, A. 6505
- Herman, H.  
Advances in materials research: Vol. 3 2454  
Vibrations of a dissipative composite lumped-distributed system 9422
- Hermans, J. J.  
See Dumbleton, J. H. 9730
- Hermes, H.  
On the closure and convexity of attainable sets in finite and infinite dimensions 65
- Hermont, A. J.  
Is seismic energy of diagnostic value? 6695
- Herrick, J.  
See Poyer, J. 3239
- Herrmann, G.  
See Prasad, S. N. 177  
Prasad, S. N. 1790  
Keer, L. M. 5262
- Hersch, M.  
Optical study of sonic and supersonic jet penetration from a flat plate into a Mach 2 airstream 5528  
See also Povinelli, L. A. 2890
- Hersh, M. S.  
Effect of discontinuities on fatigue properties of aluminum welds 5334
- Hersh, R.  
See Griego, R. J. 778
- Hertel, H.  
Biotechnical research covering optimum flow conditions as applicable to certain shapes of objects: Part 2 5589  
Ermudungsfestigkeit der Konstruktionen (Fatigue strength of structures) 7903
- Hertelendy, P.  
Upper and lower bounds on the *N*th eigenvalue of vibrating anisotropic solids 7852
- Hervouet, C.  
Ultrasonic amplification in transverse magnetic field 666
- Heskestad, G.  
A suction scheme applied to flow through sudden enlargement 395
- Hess, J. L.  
See Bauer, A. B. 8900
- Hess, M. S.  
Eigenfunction solution for beam on elastic foundation 3388
- Hess, R. W.  
Experimental and analytical investigation of the flutter of flat built-up panels under streamwise inplane load 9896
- Hess, S.  
Coupled translational and rotational motions of a sphere in a fluid 7205
- Hetenyi, M.  
Applied mechanics 4134
- Hetnarski, R. B.  
Stresses in long cylinder due to rotating line source of heat 1504
- Hetsroni, G.  
Measurements of velocity and droplets concentration in two-phase flows 1181  
Two-phase turbulent jet prediction analysis 1188  
Heat conduction in reactor fuel elements 4786
- Hettiaratchi, D. R. P.  
A general purpose soil-machine research facility 262
- Heuckroth, L. E.  
Low-energy underwater explosions 4861
- Hewitt, B. L.  
See Garner, H. C. 1250
- Heyman, D. P.  
A priority queueing system with server interference 798
- Heyman, J.  
The safety of masonry arches 3607  
See also Baker, J. 1126
- Heymann, F. J.  
Turbine blade vibration due to nozzle wakes 7818
- Heynatz, J. T.  
Flutter of sails fixed along one edge and of vanes in supersonic flow 1450  
See also Euteneuer, G. -A. 426
- Heyson, H. H.  
Theoretical study of the use of variable geometry in the design of minimal-correction V/STOL wind tunnels 2187
- Heywood, J. B.  
The effect of swirl on MHD generator performance 3965
- Heywood, R. B.  
Photoelasticity for designers 8728
- Hickman, R. G.  
See Wright, S. J. 8243
- Hickman, R. S.  
See Shaw, L. M. 9042
- Hicks, R. E.  
See Mandersloot, W. G. B. 6450
- Hicks, W. D. T.  
A control and measurement system for aeroelastic model tests 8289
- Hide, R.  
On source-sink flows in a rotating fluid 2851
- Hidy, G. M.  
See Plate, E. J. 1263
- Hieber, C. A.  
Mixed convection from a sphere at small Reynolds and Grashof numbers 9806
- Higginson, G. R.  
See Elliott, D. J. 7750
- Higgs, R. W.  
Acoustic decoupling properties of onionskin paper 1492
- Higuchi, M.  
Heat generation in polycarbonate due to pulsating tensile load 282  
Mechanical instability and yielding of polycarbonate 2608  
See also Nunomura, S. 6238
- Higuchi, Y.  
See Kato, Y. 3087
- Higuera, S.  
Lugeon-type permeability tests 1527
- Hildebrandt, J.  
Simple uniaxial and uniform biaxial deformation of nearly isotropic incompressible tissues 3242  
Completing the length-tension curve of tissue 7604
- Hill, G. E.  
On the orientation of cloud bands 4068
- Hill, H. M.  
Instability of flat bed in alluvial channels 5463

- Hill, J. A. F.  
See Draper, J. S. 8077
- Hill, J. C.  
Equations for errors in turbulence measurements with inclined hot wires 9703
- Hill, J. G.  
Dynamic behavior of a gas under the impact of radiation 4742
- Hill, J. L.  
Dynamic stresses in a case-bonded cylinder due to transient angular accelerations 3417
- Hill, R.  
On constitutive inequalities for simple materials: Part 2 6010
- Hill, R. J.  
See Hockley, B. S. 4432
- Hill, W. G., Jr.  
Initial development of turbulent, compressible free shear layers 454
- Hillier, M. J.  
The mechanics of some new processes of cup drawing 1072
- Hilliges, D.  
See Schoop, H. 3426
- Hilpert, H.  
Weight balancing of precision mechanical instruments 3647  
Synthesis of four-bar coupling linkage with prescribed train value in two conjugate positions of input and output links 5436
- Hilsdorf, H. K.  
See Kupfer, H. 5364
- Hilt, D. E.  
See Anderson, J. D. 1466
- Hilton, W. B.  
See Smith, F. W. 801
- Hino, M.  
Runoff forecasts by linear predictive filter 9970
- Hinrichsen, G.  
Iteration method for calculating the heat of transition of polymer solids from differential calorimetric data 8181
- Hinson, W. F.  
Aerodynamic characteristics in pitch of a 1/7-scale model of a two- and three-stage rocket configuration at Mach numbers of 0.4 to 4.63 3773  
Experimental investigation of multiple-jet liquid injection into hypersonic flow 9032  
See also Weaver, W. L. 6516
- Hinton, F. L.  
Nonequilibrium theory of fluid fluctuations 8893
- Hirakawa, K.  
See Nishioka, K. 1933  
Nishioka, K. 5340  
Nishioka, K. 7061  
Nishioka, K. 7062
- Hirako, Y.  
See Ohta, M. 4777  
Ohta, M. 4778  
Kobayashi, T. 9929
- Hirakochi, N.  
See Kumakura, S. 900
- Hiramatsu, Y.  
See Oka, Y. 7086
- Hirano, K.  
See Nishiyama, T. 4628
- Hirano, Y.  
A method for determining resonance frequency 1850  
Axisymmetric vibrations of thin drums 4304
- Hiraoka, M.  
A variational principle for transport phenomena: Part 2, Applications to several problems 1387
- Hirashima, K. -i.  
See Niwa, Y. 6165  
Niwa, Y. 8783
- Hirata, M.  
See Kato, H. 541
- Hiroki, T.  
Theoretical study of propellant behavior during thrust chamber depressurization 5717
- Hirose, T.  
Bubble drag and mass transfer in non-Newtonian fluids: Creeping flow with power-law fluids 1524
- Hirose, Y.  
See Iijima, K. 2714
- Hirota, I.  
Dynamic instability of stratospheric polar vortex 4071
- Hirotsu, T.  
Adhesion and dynamic phenomena during slipping of electrical rolling stock: Part 1, Slipping phenomena and improvement of adhesive characteristics of rectifier ac locomotives 4963
- Hirsch, R.  
Turbulent boundary layer of a flat plate and the Navier-Stokes equations 3729
- Hirsch, T. J.  
See Edwards, T. C. 1054
- Hirschel, E. H.  
See Krause, E. 2903
- Hirschfeld, K.  
Baustatik; Theorie und Beispiele: Dritte Auflage, erster und zweiter Teil (Structural statics; theory and problems: 3rd edition, Parts 1 and 2) 8753
- Hirst, W.  
The indentation of materials by wedges 7710
- Hitzl, D. L.  
Nonlinear attitude motion near resonance 3993
- Hladik, J.  
Les transformations fonctionnelles (Functional transforms) 5900
- Hlavac, P. J.  
Heat transfer to mercury flowing in line through an un baffled rod bundle: Experimental study of the effect of rod displacement on rod-average heat transfer coefficients 7425
- Hlavacek, I.  
Variational principles for parabolic equations 5904
- Ho, C. Y.  
A continuing systematic program on tables of thermophysical properties of materials 9780
- Ho, M. M. K.  
Contact pressure of a rigid circular foundation 4349
- Ho, R. L.  
See Buchanan, G. R. 8545
- Ho, Y. -C.  
See Behn, R. D. 5046
- Hobbs, D. W.  
Scale model studies of strata movement around mine roadways: Part 4, Roadway shape and size 4362  
Scale model studies of strata movement around mine roadways: Part 5, Quality of roadway profile, support spacing and pack material 4363  
Stress-strain-time behavior of a number of coal measure rocks 8687
- Hochfeld, D. A.  
Theorems and methods of the theory of adaptability of elastoplastic bodies 133
- Hochreiter, L. E.  
Thermal turbulence characteristics in sodium-potassium 530
- Hockley, B. S.  
Vibration and strain analysis by means of holography: A method of taking holography out of the laboratory for routine use in stress and vibration component analysis problems 4432
- Hodge, B.  
Computers for engineers: Introduction to computing machines and programming 8450
- Hodge, P. G., Jr.  
See Herakovich, C. T. 107  
Stout, R. B. 8534
- Hodges, R. R., Jr.  
Eddy diffusion coefficients due to instabilities in internal gravity waves 6706
- Hodgson, A. S.  
Hysteresis effects in surface boiling of water 1370
- Hodgson, J. W.  
An experimental investigation of heat transfer from a spray cooled isothermal cylinder 563
- Hodnett, P. F.  
Low Reynolds number flow of a variable property gas past a heated circular cylinder 5550
- Hoelker, R. F.  
Survey of a second class of orbits in the Earth-Moon field:  $X_R = 1.00$  9916
- Hoerner, J. B.  
Modal interference in vibration tests 3461
- Hofbeck, J. A.  
Shear transfer in reinforced concrete 1986

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Hoff, M.  
See Loeffler, A. L., Jr. 591
- Hoff, N. J.  
Axially symmetric creep buckling of circular cylindrical shells in axial compression 967  
Creep buckling of rectangular plates under uniaxial compression 975  
Some recent studies of the buckling of thin shells 6927  
See also Koga, T. 1807  
Pittner, E. V. 3423  
Levi, I. M. 6073
- Hoffman, A. L.  
Calculations of gas conductivity in magnetohydrodynamic shock producing devices 6588
- Hoffman, E. R.  
Just noticeable differences in some vehicle handling variables 8410
- Hoffman, O.  
See DeRuntz, J. A., Jr. 4235
- Hoffmann, W.  
See Opitz, H. 3649
- Hofland, R.  
A miniature transducer for measuring low transient pressures 5619
- Hofmann, O.  
See Luders, A. 4206  
Luders, A. 6282  
Luders, A. 8621
- Hofmann, R.  
Computed shock response of porous aluminum 238
- Hofmeister, L. D.  
Synthesis of waffle plates with multiple rib sizes 5176
- Hofsoy, A.  
Bond studies on hot dip galvanized reinforcement in concrete 336
- Hogben, N.  
See Everest, J. T. 3981
- Hohne, W.  
See Baumgart, H. 9186
- Hoist, P. A.  
Pade approximations and analog computer simulations of time delays 4163
- Hojdar, J.  
Eigenvalue estimations for a polynomial problem 6751
- Holden, G.  
Thermoplastic elastomers 1733
- Holden, M. S.  
Experimental studies of separated flows at hypersonic speeds: Part I, Separated flows over axisymmetric spiked bodies 6348  
Experimental studies of separated flows at hypersonic speeds: Part II, Two-dimensional wedge separated flow studies 6349
- Holdredge, E. S.  
See Keller, H. H. 5673
- Holeski, D. E.  
See Futral, S. M., Jr. 7362
- Holister, G. S.  
Telecentric systems for moire analysis 6216
- Holl, J. W.  
Sources of cavitation nuclei 6318
- Holland, F. A.  
See Srinivasan, P. S. 6507
- Hollien, H.  
See Brandt, J. F. 6742
- Hollingsworth, C. A.  
Solutions to some steady- and transient-flow problems relevant to the flow birefringence and dichroism of suspensions 4530
- Hollister, W. M.  
Castles in space 2353  
See Wrigley, W. 5937
- Holloway, D. G.  
See Griffiths, R. 9525
- Hollrah, R. L.  
See Buettner, D. R. 7121
- Hollweg, J. V.  
Stochastic heating of protons by fast hydromagnetic wave 594
- Holmes, J. K.  
System identification from noise-corrupted measurements 48  
Two stochastic approximation procedures for identifying linear systems 1661
- Holmes, M.  
Experimental stresses and deflections of a model shear wall structure 7141
- Holmquist, F. N.  
A conductivity probe for tenuous plasmas 1445
- Holt, A. G. J.  
Realization of the ideal transformer using operational amplifiers 7677
- Holt, E. C.  
Minimum weight proportions for steel girders 4472
- Holton, G.  
See Vedam, R. 4711
- Holton, J. R.  
The diurnal boundary layer wind oscillation above sloping terrain 730
- Holtorff, G.  
On the similarity of flow through porous media 9156
- Holtz, R. E.  
Incipient pool boiling of sodium 5685
- Holtzman, J. M.  
Analysis of statistical linearization of nonlinear control systems 5037
- Holway, L. H., Jr.  
Similarity model of an explosion in a rarefied atmosphere 9125
- Holy, Z. J.  
A synthesis technique for variable surface heat transfer 9791
- Holzer, S. M.  
Stability of columns subject to impulsive loading 1815
- Holzhauser, C. A.  
See Innis, R. C. 7500
- Homentcovski, D.  
See Dragos, L. 3926
- Homer, J. B.  
The dissociation of water vapour behind shock waves 6362
- Homma, Y.  
Elastic-plastic deformation of circular cylindrical shells under hydrostatic pressure 9389
- Homsy, G. M.  
Unsteady heat transfer from a rotating disk 1325
- Honda, M.  
See Akazawa, M. 2697
- Honda, T.  
An approximate method for analysis of stability and step response of the nonlinear second-order system with a periodically time-varying restoring-force term 5929
- Hong, S.-N.  
Heat transfer to non-Newtonian fluids in laminar flow through concentric annuli 9814
- Honig, J. M.  
See Harman, T. C. 7386
- Honji, H.  
Vortex wakes of oscillating circular cylinders 3687  
Unsteady flow past a circular cylinder 6336  
Time-dependent flow around a circular cylinder accelerated uniformly from one steady speed to another 8053
- Honma, H.  
Energy transfer processes in an ionized nonequilibrium flow 9858
- Hood, C. G.  
A reformulation of Newtonian dynamics 8490
- Hooft, J. P.  
On the critical speed range of ships in restricted waterways 8375
- Hook, J. F.  
See Wilson, P. E. 5980
- Hooke, R.  
An experimental investigation of the behavior of clamped, rectangular, mild steel plates subjected to uniform transverse pressure 921  
Approximate analysis of the large deflection elastic behavior of clamped, uniformly loaded, rectangular plates 6911  
An experimental evaluation of the rigid-plastic theory of bending of plates 7759  
Post-elastic deflection prediction of plates 8569  
Investigation into the methods of predicting post-elastic load-carrying properties of clamped, uniformly loaded, rectangular, mild steel plates 9402

- Hooke, W. H.  
E-region ionospheric irregularities produced by internal atmospheric gravity waves 4933
- Hooker, R. J.  
Equivalent stresses for representing damping in combined stress 6095
- Hooper, F. C.  
See Sernas, V. 9013
- Hooper, G.  
See Davies, L. 521
- Hooper, J. A.  
See Hawkes, I. 8733
- Hooson, R. E.  
See Harris, H. G. 8007
- Hope, B. B.  
The design of castellated beams 4470
- Hopf, E.  
On the right weak solution of the Cauchy problem for a quasilinear equation of first order 5896
- Hopkins, B. E.  
See Evans, P. R. V. 9535
- Hopkins, E. J.  
Direct measurements of turbulent skin friction on a nonadiabatic flat plate at Mach number 6.5 and comparisons with eight theories  
Charts for estimating boundary-layer transition on flat plates  
See also Keener, E. R. 3734 7305 1205
- Hopper, A. G.  
Basic statistical quality control 9239
- Hoppmann, W. H., II  
See Stead, K. A. 8601
- Hordon, M. J.  
High vacuum adhesion test apparatus 2037
- Horii, K.  
Elastic-plastic analysis of plane frameworks with large deformations 9589
- Horlock, J. H.  
Fluctuating life forces on airfoils moving through transverse and chordwise gusts 487  
See also Lewis, R. I. 507
- Hornmuth, G. A.  
Resistance thermometer for precision temperature measurement 2970
- Horn, A.  
Foundation faults and building damages 253
- Horn, G.  
Advancing boiler steam conditions  
Turbine flow problems of binary cycles employing high density fluids 2295 3913
- Horn, K. P.  
Further experiments on spreading of liquids injected into a super-sonic flow 444
- Horne, C. W. D.  
See James, W. 8359
- Horne, M. R.  
Failure loads of biaxially loaded I-section columns restrained about the minor axis 327
- Hornung, H. G.  
An experimental and numerical study of hypersonic flow over power-law bodies 1204  
Some aspects of hypersonic flow over power law bodies 3703
- Horonjeff, R. D.  
See Pearsons, K. S. 1484
- Horowitz, S.  
Some limit theorems for Markov processes 2471
- Horsky, J.  
Conservation laws in general relativity 8499
- Horton, W. F.  
Sensitivity in multivariable control systems 5022
- Horton, W. H.  
Experimental studies of the effect of general imperfections on the elastic stability of thin shells  
The instability of unstiffened and ring stabilized thin walled circular cylinders under non-uniform axial load conditions 6045 9417 6068  
See also Tenerelli, D. J.
- Horvath, F.  
Tooth root thickness between trochoidal root profiles in involute-shaped gears 4508  
Similarity criteria of dust-fluid flow 6669
- Horz, F.  
A small ballistic range for impact metamorphism studies 9127
- Hose, H.  
See Eckelt, W. R. 7283
- Hoshi, T.  
Correlation between idling vibration of machine tool and machining chatter 2696
- Hosokawa, I.  
Direct computation of the functional integral expression for the correlation function of the turbulent velocity field 471
- Hottel, H. C.  
See Sarofim, A. F. 8336
- Hough, G. R.  
Froude number effects on two-dimensional hydrofoils 9194
- Hough, W. W.  
Solar array performance as a function of orbital parameters and spacecraft attitude 3111
- Houghton, D. L.  
See Houk, I. E., Jr. 8767
- Houghton, E. L.  
Further aerodynamics for engineering students 8054  
Aerodynamics for engineering students: 2nd edition 8920
- Houk, I. E., Jr.  
Prediction of thermal stress and strain capacity of concrete by tests on small beams 8767
- Hoult, D. P.  
Euler-Lagrange relationship for random dispersive waves 6425
- Houston, W. N.  
Property interrelationships in sensitive clays 7020 1890  
See also Mitchell, J. K.
- Hovanessian, S. A.  
See Pipes, L. A. 1603
- Hovell, P. B.  
The use of calibrated strain gages for flight load determination 3838
- Howard, C. D. D.  
See Shamir, U. 398
- Howard, E. P.  
See Kapur, K. K. 1011
- Howard, J. H. G.  
See Lennemann, E. 7363
- Howden, D. G.  
Mass transfer of metal vapor and anode temperatures in arc melting  
See also Cheever, D. L. 3652 1144
- Howe, R. M.  
See Fogarty, L. E. 6805
- Howell, D. T.  
See Stallings, R. L., Jr. 1200 2151  
Campbell, J. F.
- Howell, J. R.  
Effective slip coefficients for coupled conduction-radiation problems 1353
- Howell, R. H.  
Numerical solution of subsonic compressible flow at two-dimensional inlets 7256
- Howell, R. R.  
See Hunt, L. R. 4586
- Howells, R. I. L.  
See Jones, M. H. 4089
- Howes, M. H.  
See Saperstein, Z. P. 8816
- Howes, W. L.  
Phenomenological theory of loudness 2363
- Howlett, J. T.  
See McCarty, J. L. 7864
- Howlett, R.  
See West, C. 2846 7181  
West, C.
- Howse, M. G. J. W.  
See Hirst, W. 7710
- Hoyaux, M. F.  
See Ali Kettani, M. 3955
- Hrennikoff, A.  
The finite element method in application to plane stress 1717
- Hribar, J. A.  
See Skeer, M. H. 2803
- Hron, M.  
Radiation of seismic surface waves from extending circular sources 9962
- Hruska, K.  
Relation between the general and the simplified condition for the velocity of propagation of ultrasonic waves in a piezoelectric medium 3142  
Theories of elastic properties and elastic waves of equal phase velocities in crystals 6999

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Hrycak, P.  
Experimental flow characteristics of  
a single turbulent jet impinging on  
a flat plate 5494  
*See also* Gauntner, J. W. 5529
- Hsieh, H. C.  
Propagation of circularly polarized  
electromagnetic waves in a finite  
temperature magnetoplasma 9079
- Hsu, C.-J.  
The influence of axial conduction  
on the thermal entry-region heat  
transfer in magnetohydrodynamic  
channel flow 3925
- Hsu, C. S.  
Dynamic stability criteria for  
clamped shallow arches under  
time-wise step loads 2711
- Hsu, C. T.  
Vibrational relaxation of diatomic  
gases behind shock waves 8074
- Hsu, E. Y.  
*See* Zagustin, K. 3785
- Hsu, H. P.  
Wave propagation in anisotropic  
media 3491
- Hsu, P. T.  
The phenomenal changes in snap-  
buckling of elasto-plastic struc-  
tures under static and dynamic  
loads 179
- Hsu, T. C.  
A study of wear on cemented  
carbide cutting tools 4969
- Hsu, T. R.  
*See* Axelrad, D. R. 5829
- Hsu, Y.-w.  
Elastic buckling of two-component  
columns 1792
- Hsu, Y.-Y.  
*See* Simon, F. F. 3862
- Hsueh, P.-K.  
*See* Archer, R. R. 9401
- Hu, C.-L.  
Spherical model of an acoustical  
wave generated by rapid laser  
heating in a liquid 6628
- Hu, P. Y.  
Response of linear systems to mag-  
nitude limited random excitation 7839
- Hu, S. M.  
Temperature distribution and  
stresses in circular wafers in a row  
during radiative cooling 4736
- Hu, W. C. L.  
*See* Wah, T. 997  
Kana, D. D. 1014  
Gormley, J. F. 3455
- Huang, A. B.  
Kinetic theory of the sharp leading  
edge problem in supersonic flow  
Supersonic leading edge problem  
according to the ellipsoidal model 7265  
7282
- Huang, C.-L.  
The energy function for crystal ma-  
terials with couple stresses 8516  
On forced vibration of anisotropic  
cylinders 9452
- Huang, J.-C.  
*See* Buchanan, G. R. 985
- Huang, N. C.  
On elastic filament reinforcement  
of a viscoelastic cylinder 1732  
Dynamic snap-through of an elastic-  
plastic simple shallow truss 1799  
Dynamic snap-through of an elastic  
imperfect simple shallow truss 3425  
Thermomechanical coupling effect  
on the stability of nonconservative  
elastic continuous systems 8580  
*See also* Vahidi, B. 5824
- Huang, T.  
Frequencies of a hanging chain 193  
Buckling and frequencies of long  
vertical pipes 194
- Huang, T. C.  
Response and stability of a self-  
sustained two-degrees-of-freedom  
system with nonlinear damping 5247
- Huang, Y. T.  
Effect of an elastically-restrained  
boundary on dilatational wave  
radiation patterns 2715
- Hubbard, E. W.  
Flow field behind a shock wave in a  
low-pressure test gas 6351
- Hube, F. K.  
Thermocouple total-temperature,  
probe-radiation errors 1352
- Huckins, E. K., III  
Techniques for selection and analy-  
sis of parachute deployment sys-  
tems 7503
- Hudelson, J. C.  
*See* Strom, T. N. 5873
- Huder, J.  
Analysis of laterally loaded piles 4357
- Hudimoto, B.  
Two-dimensional shear flows of  
linear micropolar fluids 3666
- Hudson, C. M.  
Investigation of fatigue-crack growth  
under simple variable-amplitude  
loading 6191
- Hudson, J. A.  
The scattering of elastic waves by  
granular media 8663
- Hudson, J. L.  
*See* Homsy, G. M. 1325  
Tomlan, P. F. 3006
- Hudson, M. L.  
*See* Dixon, S. C. 9094  
Dixon, S. C. 9899
- Hudson, R. R.  
*See* Crocker, M. J. 8314
- Hueckel, S.  
Determination of the safety factor  
in soil mechanics and foundation  
engineering 5289
- Huen, T.  
Phase-plane method of exponential  
waveform measurement 4321
- Huff, R. G.  
Convective heat-transfer coefficients  
from a solution of the conduction  
equation for a wall separating two  
fluids, one having an oscillating  
temperature 2983
- Huffenus, J.-P.  
*See* Geneste, L. 4626
- Hufferd, W. L.  
*See* Fitzgerald, J. E. 9546
- Hughes, B. P.  
Short-term loading and deformation  
of concrete in uniaxial tension and  
pure torsion 1111
- Hughes, D. K.  
Variational and optimal control  
problems with delayed argument 1680
- Hughes, I. G.  
*See* Meyers, N. 1313
- Hughes, P. C.  
Influence of solar radiation on the  
spin behavior of satellites with  
long flexible antennae 7516
- Hughes, T. F.  
*See* Moore, R. H. 6605
- Hughes, T. H.  
The stability of spiral flow between  
rotating cylinders 7230
- Hughes, W. F.  
*See* Eggenberger, A. J. 4802
- Hughmark, G. A.  
*See* Beaver, P. R. 7445
- Huidu, T.  
The photoelastic study of the  
mutual influence of storeroom  
openings on the 4500 tdW cargo  
boat 2774
- Huilgol, R. R.  
Steady temperature fields in second  
order fluids 5657
- Hulce, V. D.  
*See* Fallenstein, G. T. 4113
- Hull, D. G.  
*See* Powell, J. L. 3767
- Humenik, F. M.  
Performance of short length turbo-  
jet combustor insensitive to radial  
distortion of inlet airflow 5714
- Humes, D. H.  
Calculation of the penetration flux  
for a multiwall structure on the  
lunar orbiter spacecraft 9493
- Humpherson, J.  
*See* Sharman, P. W. 6036
- Humpherys, A. S.  
Mechanical structures for farm  
irrigation 8029
- Humphrey, F. B.  
*See* Kryder, M. H. 239
- Huncher, T. V.  
*See* Bogdan, R. C. 1691
- Hund, M.  
Investigations on cavitation of single  
bubbles in a water-filled pressure  
chamber at 10 Hz 7179
- Huni, J. P.  
*See* Ahlborn, B. 6622

- Hunt, B. W.  
Flow rates in two-dimensional, unsteady, confined groundwater flow 6684
- Hunt, G. K.  
See Roberts, D. R. 3766
- Hunt, G. W.  
See Thompson, J. M. T. 8581
- Hunt, J. C. R.  
A uniqueness theorem for magneto-hydrodynamic duct flows 586
- Hunt, J. L.  
Heat transfer to the windward side of a fineness-ratio-2.9 cylinder with nearly spherical ends at a Mach number of 6 and angles of attack of 50°, 70°, and 90° 3865
- Hunt, J. N.  
On the turbulent transport of a heterogeneous sediment 1518
- Hunt, K. H.  
See Jenkins, E. M., Jr. 2026
- Hunt, L. R.  
Exploratory study of open-face honeycomb to reduce temperature of hypersonic aircraft structure 4586
- Hunter, A.  
Heat flow across metallic joints: The constriction alleviation factor 539
- Hunter, A. R.  
See Almroth, B. O. 9415
- Hunter, N. F., Jr.  
See Otts, J. V. 6099
- Hunter, P. A.  
An analysis of VGH data collected from one type of four-engine turbojet transport airplane 9721
- Hunter, S. C.  
Similarity solution for the rapid uniform expansion of a spherical cavity in a compressible elastic-plastic solid 8655
- Huntsinger, R. C.  
See Lutter, B. E. 5052
- Huppert, H. E.  
Lee waves in a stratified flow: Part 3, Semi-elliptical obstacle 492  
See also Miles, J. W. 493
- Hurle, I. R.  
Chemico-physical processes in shock waves 3721  
See also Homer, J. B. 6362
- Hurlimann, R.  
Calculation of the forces on a slender pointing wing 482
- Hurt, G. J., Jr.  
An evaluation of two guidance schemes for a manned lunar landing 7510
- Hurtado, J.  
Rheologic theory of strength of materials 5098
- Hurwitz, H.  
See Kamlet, M. J. 5784
- Husar, R. B.  
See Sparrow, E. M. 2236  
Sparrow, E. M. 3864  
Sparrow, E. M. 9807
- Huse, E.  
Hull vibration and measurements of propeller-induced pressure fluctuations 9457  
Propeller tip clearance and after-body form 9998
- Husein, A. B.  
See Tsao, K. C. 6176
- Huseonica, W. F.  
A numerical evaluation of preliminary orbit determination methods 6610
- Huseyin, K.  
Fundamental principles in the buckling of structures under combined loading 8578
- Husid, R.  
See Jennings, P. C. 4503
- Hussain, A. K. M. F.  
The mechanics of an organized wave in turbulent shear flow 8916
- Hussain, M. A.  
See Noble, B. 5075
- Hussain, S. B.  
Fabrication of CdS piezoelectric transducers by electron beam evaporation 8640
- Hussaini, M. Y.  
Laminar supersonic flow in near wakes at high values of Reynolds number 8100
- Hussainy, S. A.  
Stress distribution in the vicinity of slender notches having arbitrary shapes 7056
- Hust, J. G.  
A compilation and historical review of temperature scale differences 7401  
See also Gosman, A. L. 2962
- Huston, R. J.  
A wind tunnel and analytical study of the conversion from wing lift to rotor lift on a composite-lift VTOL aircraft 2337  
See also Winston, M. M. 2336
- Huston, R. L.  
Nonlinear stress-strain equations for incompressible elastic media 4210  
Nonlinear vibration of a pendulum in a viscous stream 8144
- Hutan, G.  
See Huidu, T. 2774
- Hutchins, D. L.  
Calculation of the field of a baffled array by the geometrical theory of diffraction 1489
- Hutchinson, J. R.  
Stress waves in layered materials 1044
- Hutchinson, J. W.  
Imperfection sensitivity of eccentrically stiffened cylindrical shells 6069  
See also Budiansky, B. 5386
- Hutt, P. K.  
See Thorpe, S. A. 4728
- Hwang, C.  
Vibration of ring-stiffened and mass-attached hemispherical shells 1847  
Random acoustic response of a cylindrical shell 4302
- Hwang, G. J.  
See Nakayama, W. 7293
- Hwang, P. F.  
See Huang, A. B. 7282
- Hwang, S.-T.  
Interaction energy in surface diffusion 527
- Hyakutake, H.  
See Higuchi, M. 2608
- Hyland, M. W.  
Bearing capacity of concrete blocks 9579
- Hyland, R. N.  
Remote recording shock wave detector and gated interval timer 2358
- Hyncica, V.  
Measuring the surface temperature of metallic bodies on cooling in a fluid bath 532
- Iachetta, F. A.  
See Nelson, M. E. 8987
- Iakimov, Iu. L.  
Axisymmetric detached flow past a solid of revolution with small cavitation numbers 1173
- Iamandi, C.  
Jet-induced circulation and diffusion 8849
- Iannuzzi, F. A.  
See Whitfield, J. D. 2902
- Ianov, Yu. M.  
Methods of analyzing the results of long-time strength tests on synthetic materials 1093
- Iberall, A. S.  
Anatomy and steady flow characteristics of the arterial system with an introduction to its pulsatile characteristics 5885
- Ibragim, M. A.  
See Bondarenko, A. V. 6355
- Ibragimov, Kh.  
See Cherkasov, I. I. 316
- Ibrahim, A.-B. K.  
Leaking and normal modes as a means to determine crust-upper mantle structure for different paths to Sweden 2409
- Ibrahim, I. O.  
See Hofbeck, J. A. 1986
- Ibrahim, S. H.  
See Das, T. R. 5635
- Ibuchi, H.  
See Murakami, Y. 5316
- Icerman, L. J.  
Optimal structural design for given dynamic deflection 330
- Ichikawa, K.  
Study of optimal steering 4198  
On the longitudinal instabilities of aircraft due to sinusoidally excited parameters 9719
- Ichikawa, M.  
See Yokobori, T. 1921  
Yokobori, T. 6197

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Ichimaru, S.**  
Kinetic equations for turbulent plasmas: Part 1, Quasilinear theory 1432  
Kinetic equations for turbulent plasmas: Part 2, Fluctuation spectrum 1433
- Ichinose, H.**  
Amplitude dependent internal friction of polycrystalline aluminum 7739
- Ide, Y.**  
Thermodynamic theory of non-hydrostatically stressed solid involving finite strain 5815  
See Ukeguchi, N. 8121
- Idriss, I. M.**  
See Seed, H. B. 3519
- Idso, S. B.**  
Thermal radiation from the atmosphere 9985
- Iesan, D.**  
On the thermoelastic finite plane strain 5810  
On the plane coupled micropolar thermoelasticity: Parts 1 and 2 6655  
On the linear theory of micropolar elasticity 6839
- Ignatova, O. I.**  
Correction of the values of the deformation moduli of clay soils of plastic consistency determined with compression apparatus 5290
- Ignatushchenko, V. V.**  
Switching-function synthesis in certain types of homogeneous structures 804
- Iguchi, A.**  
Heat and mass transfer from a rotating disk in a cylinder 6510
- Iida, S.**  
Crack-propagation rate in 7075-T6 plates under cyclic tensile and transverse shear loadings 4412
- Iida, Y.**  
Distributions of void fraction above a horizontal heating surface in pool boiling 7442
- Iijima, K.**  
Holographic method of vibration analysis 2714
- Ikaryan, N. S.**  
See Gasparyan, A. M. 9642
- Ikawa, H.**  
Weldability of nickel-base heat resisting superalloy: Effect of aluminum content on the weld crackings in Inconel 713C 1147
- Ikebe, Y.**  
Speed control of rotating load: A design method for the maximum efficiency operation of the prime mover 6809
- Ikeda, K.**  
Brittle fracture strength of welded joint 2750  
Brittle fracture strength of welded joint 5322  
The deep notch test and brittle fracture initiation 5323
- Ikeda, N.**  
Application of the Fourier expansion method to the problem of stability of a plane jet 7215
- Ikeda, T.**  
Electroacoustical constants of asymmetric piezoelectric bimorph 2620
- Ikegami, H.**  
Scattering of microwaves from a plasma column in rectangular waveguide 9062
- Ikegami, K.**  
See Shiratori, E. 6017
- Ikegami, R.**  
See Brown, G. W. 9528
- Ikehata, M.**  
Determination of wavemaking resistance of a ship by the method of wave analysis 3219  
On experimental determination of wavemaking resistance of a ship 9190
- Ikryannikov, N. P.**  
Temperature distribution in laminar flow of an incompressible fluid in a rectangular channel allowing for energy dissipation 6366
- Ikui, T.**  
Investigations of the aerodynamic characteristics of the shock tubes: Part 1, The effects of tube diameter on the tube performance 3832  
Investigations of the aerodynamic characteristics of the shock tubes: Part 2, On the formation of shock waves 3833  
Predicting equivalent performance of blowers and compressors for gases from air test data: Some problems encountered in the translation of compressor performance 4669  
Operating characteristics of dc arc plasma torch: Part 1, Operation at atmospheric pressure using argon gas 4834  
See also Muraoka, K. 7264
- Ilic, D.**  
Surface waves on inhomogeneous plasma columns 3954
- Ilic, D. B.**  
A surface wave experiment on inhomogeneous plasma 9861
- Ilichev, V. I.**  
Relationship between acoustic noise and erosion in hydrodynamic cavitation 1168
- Ilin, B. I.**  
Influence of static pressure on the ultrasonic fountain effect in a liquid 664
- Iliina, A. M.**  
See Korbut, B. A. 210
- Iliina, M. A.**  
See Vereshchagin, L. F. 7558
- Iliuc, I.**  
Effect of lubricant purity on the reproducibility of friction coefficient measurements 3228
- Iliarova, L. I.**  
See Ginevskii, A. S. 5572
- Ilig, W.**  
See Imig, L. A. 3554
- Illingworth, J. K. B.**  
Variable stability and control tests on the SC1 aircraft in jet-borne flight, with particular reference to desirable VTOL flying qualities 3980
- Illston, J. M.**  
See Jordaan, I. J. 5362
- Imai, J. S.**  
High-frequency acoustical interferometer 7542
- Imai, R.**  
See Shimizu, S. 7909
- Imai, Y.**  
See Higuchi, M. 282
- Imbembo, E. A.**  
See Johnson, A. A. 1098
- Imedashvili, K. A.**  
See Artobolevskii, I. I. 3636
- Imig, L. A.**  
Fatigue of notched Ti-8Al-1Mo-1V titanium alloy at room temperature and 550°F (560°K) with flight-by-flight loading representative of a supersonic transport 3554
- Imura, T.**  
A direct method to investigate the dynamic properties of dislocations based on high voltage electron microscopy 2614
- Inazaki, I.**  
Surface waves generated on the grinding wheel; Part 2, Consideration on the generation of waves 2699  
Forced vibrations during surface grinding 4311  
Surface waves generated on the grinding wheel 6174
- Indenbom, V. L.**  
Construction of Green's function in terms of Green's function of lower dimension 767
- in der Gand, H.**  
New insights on snow gliding 1538
- Indlin, Yu. A.**  
Regenerative reverberation associated with sound amplification in closed rooms 657
- Infante, E. F.**  
Stability of a column subjected to a time-dependent axial load 1816
- Infeld, E.**  
Convective and absolute two-stream instabilities for hot plasma 2310
- Ingard, U.**  
On sound-transmission anomalies in the atmosphere 662
- Ingebrigtsen, K. A.**  
Surface waves in piezoelectrics 3499
- Inger, G. R.**  
Discontinuous supersonic flow past an ablating wavy wall 1226  
Strong blowing across a Couette-Poiseuille shear flow 5700
- Ingerle, K.**  
Bending stiffness of reinforced concrete beams and T-beams without longitudinal force 910

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Ingerle, K. (Continued)  
Elastic stability of a straight bar and of a pipe with circular cross-section under considering bending moments, axial forces, and transverse forces 1794  
Stresses in circular and oval tubes due to uniform pressure 4260  
Bar-like, two-dimensional, nonlinearly elastic structures at large deformations 7748
- Ingham, D. B.  
Magnetohydrodynamic flow in a container 4803
- Ingram, D. S.  
See Szebehely, V. 7504
- Ingram, J. D.  
See Forristall, G. Z. 2172
- Inman, C.  
The use of a simple isothermal model as a guide to flame behavior in a glass furnace 4712
- Innis, R. C.  
Airworthiness considerations for STOL aircraft 7500
- Inoue, A.  
See Tokumaru, H. 5924
- Inoue, K.  
See Sawaragi, Y. 1677  
Sawaragi, Y. 2530
- Inoue, M.  
See Ikui, T. 4669
- Inoue, S.  
See Tatsuno, M. 9729
- Insarov, V. V.  
Analysis of the precision of non-stationary dynamic systems containing random parameters 6100
- Iodelis, B.  
On the determination of internal stresses in metals 311
- Iodko, E. A.  
Calculation of convective streams in the liquid core of solidifying bodies of very simple shape 3874
- Ioffe, A. I.  
Sound radiation from a long spark in water 9937
- Ionescu, F.  
See Amatişesei, R. 400
- Ionescu, H. P.  
Approximate methods for the integration of some differential equations 1610
- Ionescu, V.  
The integral displacement of fluids in homogeneous porous media 4049
- Ionov, V. P.  
See Nikolaev, G. N. 8889
- Iordache, I.  
See Grecov, D. 1395
- Ioselevich, V. A.  
See Didukh, B. I. 6135
- Ioslovich, I. V.  
Optimum stabilization of a satellite in an inertial coordinate system 6616
- Ip, C. -U.  
See Kapur, K. K. 1011
- Ippen, A. T.  
See Harleman, D. R. F. 406
- Ippolito, S. J.  
Velocity measurement of slowly moving surfaces using an He-Ne laser heterodyne system 6984
- Iqbal, M.  
Laminar combined free and forced convection in vertical noncircular ducts under uniform heat flux 5654
- Ireland, H. O.  
The dynamic penetration test: A standard that is not standardized 9507
- Irick, J. T.  
See Abramson, H. N. 739
- Irie, T.  
Safety domain of lateral deflection of yarn running on guide pulleys 2021
- Irimiciuc, N.  
A new relation for expressing the principle of Gauss 2555
- Irons, B. M.  
A conforming quartic triangular element for plate bending 920
- Irvine, T. F., Jr.  
Progress in heat and mass transfer: Vol. 2, Eckert presentation volume 5694
- Irwin, G. R.  
Basic concepts for dynamic fracture testing 4448
- Isaacs, D.  
Tests at subsonic and supersonic speeds on a slender cambered wing with fin, underwing engine nacelles and trailing-edge controls 4633  
Calibration of the RAE Bedford 8 ft x 8 ft wind tunnel at subsonic speeds, including a discussion of the corrections applied to the measured pressure distribution to allow for the direct and blockage effects due to the calibration probe shape 9756
- Isachenko, V. P.  
The intensity and regimes of heat transfer with steam condensation in a vertical tube 567
- Isada, N. M.  
Dynamics of cambered rapid-transit bridge 3610
- Isaev, A. N.  
See Chernilin, Yu. F. 3868
- Isakhanov, G. V.  
See Rodichev, Yu. M. 4906
- Isakson, G.  
See Pifko, A. 4277
- Ishibashi, A.  
On the load capacities of Novikov gears 6285
- Ishida, A.  
See Ohte, S. 4418
- Ishiguro, R.  
Turbulent heat transfer from a surface having stepwise discontinuities on the wall temperature 7413
- Ishihara, T.  
Characteristics of fluid coupling 4673
- Ishii, H.  
See Higuchi, M. 282
- Ishii, R.  
See Kamimoto, G. 7239
- Ishii, T.  
Flutter and divergence of two-dimensional panels in subsonic and transonic flow 3974
- Ishikawa, N.  
See Yamasaki, T. 1128
- Ishlinskii, A. Yu.  
Mechanics of solids 7612
- Ishutkin, S. I.  
Cinemometric method of determining inherent deformation resistance during dynamic tension 6233
- Ismail, H.  
See Barden, L. 7870
- Ismar, H.  
On the mechanics of tube expansion by underwater shock waves 7347
- Iso, A.  
Velocity distribution function for electrons in the ionosphere in the presence of electric and magnetic fields: Part 1, Effect of an oscillating electric field 9875
- Israel, S.  
Critical heat flux measurements in a 16-rod simulation of a BWR fuel assembly 5690
- Isshiki, N.  
Experimental studies on and considerations of the supercharged once-through marine boiler 9039
- Itakura, A.  
See Kojima, S. 9070
- Itkin, M. S.  
See Starostin, P. I. 7470
- Ito, H.  
See Fujii, K. 4174  
Suhara, T. 4862
- Ito, N.  
See Wakashima, H. 1952
- Ito, S.  
Stress analysis on flat plates with mixed U-V notches by the photo-elasto-plastic method 7922
- Ito, Y. M.  
See Lin, T. H. 6193  
Lin, T. H. 6194
- Itskevich, E. S.  
See Vereshchagin, L. F. 7558
- Itskovich, E. L.  
Optimal composition of production monitoring and control programs 5042
- Iudovich, V. I.  
Free convection and bifurcation 1183  
On the origin of convection 6493
- Ivanenko, G. S.  
See Zagorskii, T. Ya. 4033
- Ivanin, V. Ya.  
Calculation of the dynamic magnification coefficient for the vibrations of compound mechanical elastic systems 5221

- Ivankin, L. G.  
See Tarakanov, Yu. A. 3198  
Tarakanov, Yu. A. 5842
- Ivanov, A. B.  
Small torsional oscillations of an elastically constrained rigid circular cylinder filled with a viscous fluid 3792
- Ivanov, A. I.  
Variation problem of the motion of a point of variable mass with variable velocity of efflux 8493
- Ivanov, A. P.  
Investigation of the dynamic frequency characteristics of layered geoelectric structures 713  
See also Katsev, I. L. 5842
- Ivanov, A. V.  
Experimental investigation of the effect of Mach and Reynolds numbers on the structure of supersonic flow of a rarefied gas near the forward stagnation point of a blunt body 7272
- Ivanov, G. V.  
Approximation of a finite relation between loads and moments in shells for Mises condition of plasticity 2642
- Ivanov, I.  
The natural inhibitors of corrosion 2764
- Ivanov, I. T.  
Methods for determining radiative characteristics of metal and ceramic surfaces 5675
- Ivanov, K. B.  
Almost optimal control of a class of linear dynamic systems 1675
- Ivanov, O. S.  
See Mochalov, G. A. 5831
- Ivanov, T. F.  
Steady rotational motions of fluid masses at low Reynolds numbers 418
- Ivanov, V. A.  
Method of recording the motion of the striker of a pneumatic drop-hammer 1884  
Disintegration of a liquid jet 7217
- Ivanov, V. L.  
Some results of an experimental investigation of a cooled turbine 3893
- Ivanov, V. N.  
Realization of majority operations (the voting function) in feedback systems 2493  
Relation of the stability parameters in the atmospheric boundary layer to the Rayleigh number 9980  
See also Volkovitskaya, Z. I. 4944
- Ivanov, Yu. A.  
Experimental investigation of temperature fluctuations in the sea in the range of frequencies of internal gravity waves 7575  
See also Byshev, V. I. 9182
- Ivanov, Yu. N.  
See Grodzovskii, G. L. 7514
- Ivanova, G. M.  
See Preobrazhenskii, V. P. 2180
- Ivanova, L. A.  
See Vasilyev, Yu. I. 7005
- Ivanova, N. B.  
See Vilenskii, V. D. 3854
- Ivanova, V. S.  
On the relations of fracture of metals under static and repeated loads 283  
Laws of failure of metals in the case of static and cyclic loads 4411
- Ivanovskiy, M. N.  
Heat transfer in film and dropwise condensation of liquid metal vapors 1373
- Ivashkin, V. V.  
Combined analysis of correction and braking problems in a certain class of trajectories for landing on a planet 635  
Optimal impulse transitions inside an annulus on orbits not intersecting the annulus boundary 3100  
See also Dashkov, A. A. 3987
- Ivchenko, I. N.  
See Yalamov, Yu. I. 5630
- Ives, J.  
See Orloff, C. R. 7345
- Iverson, J. M.  
A simple telemetering system for strain measurement 3570
- Ivlev, D. D.  
See Bykovtsev, G. I. 6019
- Ivlev, L. S.  
Methodical peculiarities of investigations of various aerosols 9959
- Iwan, W. D.  
Application of an equivalent nonlinear-system approach to dissipative dynamical systems 2674  
On defining equivalent systems for certain ordinary nonlinear differential equations 7617
- Iwanami, S.  
On flow properties and relative viscosity of suspensions of rigid spherical particles 391  
Study on flow characteristics in right-angled pipe fittings: Part 1, On case of water flow 9626  
Study on flow characteristics in right-angled pipe fittings: Part 2, On case of slurries in hold up flow 9627
- Iwasaki, I.  
X-ray measurement of residual stresses in curved beams and ring 7931
- Iwata, K.  
See Wang, K. K. 3529
- Iwatsuki, M.  
A note on the resistance to brittle fracture in various ceramic materials 278
- Iwatsuki, S.  
See Murakami, S. 3367
- Iwens, R.  
Bounds on the responses of nonlinear control systems 42
- Iwinski, T.  
Theory of beams: The application of the Laplace transformation method to engineering problems, 2nd enlarged edition 907
- Iyengar, K. T. S. R.  
The response of beam and slab bridges to moving forces 5411  
A three dimensional elasticity solution for rectangular prism under end loads 6832
- Izdebskaya, G. A.  
See Kilchevskii, N. A. 162
- Izmailov, A. A.  
On the bending of a plate set at a small angle of attack in a supersonic gas flow 8282
- ## J
- Jacazio, G.  
On the flow calculation of a compressible fluid through axial labyrinth seals 8076
- Jack, J. R.  
Thermal radiative property measurements using cyclic radiation 5672
- Jackson, C. E.  
See Lawrence, B. D. 2035
- Jackson, F.  
See Roberts, A. K. 7467
- Jackson, N.  
The torsional rigidity of concrete bridge decks 349
- Jackson, P.  
See Lawrence, A. J. 5756
- Jackson, R.  
Optimization of chemical reactors with respect to flow configuration 820
- Jackson, R. D.  
See Idso, S. B. 9985
- Jackson, S. K., Jr.  
Locally similar hypersonic laminar boundary-layer error estimate 3740
- Jackson, T. W.  
See Pitts, D. R. 1362
- Jacobs, H. R.  
A low shear tube viscometer for blood 4986
- Jacobs, J. D.  
Measurement of temperatures associated with bubbles in subcooled pool boiling 1361
- Jacobson, M. J.  
See Warfield, J. T. 2366
- Jacquin, C.  
See Bardon, C. 4055
- Jacquot, R. G.  
Vibrations of elastic surface systems carrying dynamic elements 9433
- Jadraque, V. M.  
Calculation of longitudinal reinforcement in circular concrete pillars 6255
- Jaeger, H. -P.  
Thermodynamic properties of binary mixtures of refrigeration machine oils and monofluorotrichloromethane (R 11): Part 2 4713

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Jaffe, P.**  
Terminal dynamics of atmospheric entry capsules 3998
- Jaffrin, M. Y.**  
See Shapiro, A. H. 3246
- Jagadish, K. S.**  
See Iyengar, K. T. S. R. 5411
- Jager, Ph.**  
See Frie, W. 3669
- Jahn, R. G.**  
See Clark, K. E. 613
- Jahsman, W. E.**  
Collapse of a gas-filled spherical cavity 2107
- Jain, M. K.**  
The estimation of the coefficients in the Legendre series expansion of a function 3297
- Jain, N. K.**  
The elastic response of a large thin plate to an impulsive pressure distribution of polynomial character 227
- Jain, O. P.**  
Analysis of R. C. water tower frames 4485
- Jain, R. K.**  
See Kalathia, N. L. 8017
- Jakubowski, M.**  
See Conway, H. D. 5257
- Jalobeanu, C.**  
Numerical analysis of a system of partial differential equations 9260
- James, C. R.**  
Waves in media with longitudinal and transverse discontinuities 8644
- James, D. J. G.**  
Stability analysis of a model reference adaptive control system with sinusoidal inputs 1670
- James, D. W.**  
High damping metals for engineering applications 3471
- James, L. A.**  
See Anderson, W. E. 8711
- James, W.**  
Numerical computations for tidal propagation in the St. Lucia Estuary 8359
- Jamet, P.**  
On the convergence of finite-difference approximations to one-dimensional singular boundary-value problems 8446
- Janas, M.**  
Nosnosc graniczna lukow i sklepien (Limit analysis of arches and vaults) 325
- Janca, J.**  
Utilization of rotational and vibrational temperatures for plasma diagnostics of high-pressure discharges 9891
- Jancarik, J.**  
Transit of beams of charged particles through a non-adiabatic magnetic field 1434  
Generation of beams of charged particles with transverse energy 7492
- Jancina, J.**  
The variety of zero normal accelerations of body points 8494
- Janecek, O.**  
The vibration of a spring-suspended mass with a spring having a rectangular periodical stiffness-time function 976
- Janecki, S.**  
Free vibrations of rotating beams as blades of steam turbines 2685
- Janicki, J. S.**  
See Patel, D. J. 8396
- Jankovic, V.**  
Bridge vibrations due to a vehicle ride 2809
- Jankowska, A.**  
Statics of hyperbolic paraboloid shell 4258
- Jankowski, D. F.**  
See Versteegen, P. L. 2867
- Janosi, Z. J.**  
Analysis of the basic curve of obstacle negotiation 1056
- Janowitz, G. S.**  
On wakes in stratified fluids 6311
- Janssen, J. D.**  
The determination of the correctness of some theories about strength and stiffness of thin-walled beams: Analytical and numerical methods 9366
- Janssen, J. H.**  
Marine diesel exhaust noise: Part 1, A mathematical model 1486
- Janssens, G.**  
See Paulon, J. 3797
- Jaquet, B. M.**  
See Miller, G. K., Jr. 4850
- Jarrett, H. S.**  
See Tahir-Kehli, R. A. 833
- Jarvinen, P. O.**  
Rocket exhaust plume dimensions 9052
- Jarvis, R. J.**  
The scattering of surface waves by a vertical plane barrier 6423
- Jarvis, S., Jr.**  
On the diffusion of an ion sheet in Poiseuille flow 4815
- Jarzyna, H.**  
Criteria of selection of the kinematic and geometric parameters of a V-S/2 cycloidal propeller 9999
- Jasper, M. T.**  
See Liu, C. K. 8868
- Jaumotte, A.**  
See Faure, J. 8198
- Jaumotte, A. L.**  
Micro-rockets 583
- Javor, T.**  
A contribution to further development of the experimental method of direct determination of influence surfaces of static quantities on model slab bridges 1941
- Jaworski, J.**  
An iteration method of design of prestressed beams on the basis of the hypothesis of A. Caquot 2797
- Jawurek, H. H.**  
Simultaneous determination of micro-layer geometry and bubble growth in nucleate boiling 8219
- Jech, R. W.**  
Preparation of fibered ceramics by mechanical deformation 7557
- Jefferson, C. P.**  
An approximation method for Fourier transform inversion applied to distributed parameter systems 4148
- Jeffrey, A.**  
Formation and decay of electromagnetic shock waves 5745
- Jen, N. C.**  
See Kent, G. I. 6563
- Jendo, S.**  
Optimum design of surface axisymmetric suspended structures: Application of the minimum weight criterion 1982  
Optimum design of axisymmetric prestressed surface structures: Application of the stress equalization criterion 3591  
Optimum design method for suspended structures: Application of the minimum weight criterion 4473
- Jeng, D.-T.**  
Forced model equation for turbulence 6397
- Jenike, A. W.**  
On the theory of bin loads 7136  
Bin loads 9960
- Jenkins, C. W.**  
See Metzger, D. E. 2223
- Jenkins, D. C.**  
An experimental method for studying the high speed impact of a liquid drop on a liquid surface 8837
- Jenkins, D. E.**  
See Collins, R. E. 3256
- Jenkins, D. R.**  
See Halstead, C. J. 3825
- Jenkins, E. M., Jr.**  
Gross motion attributes of certain spatial mechanisms 2026
- Jenkins, G. M.**  
See Box, G. E. P. 800
- Jenkins, J. M.**  
Flight measurements of canard loads, canard buffeting, and elevon and wing-tip hinge moments on the XB-70 aircraft including comparisons with predictions 2931
- Jenkins, K. W.**  
Pitch control of a flexible launch vehicle 2520
- Jenkins, W. C.**  
Analysis of cylindrical shells of nonuniform thickness using two-dimensional photoelastic models 7072  
See also Yao, J. C. 7796

- Jenkins, W. M.**  
Matrix and digital computer methods in structural analysis 9564
- Jennings, P. C.**  
Collapse of yielding structures during earthquakes 4503  
*See also Hoerner, J. B.* 3461
- Jensen, T. H.**  
Broad band correlation measurements with an x-y scope 2708
- Jenssen, O.**  
Note on the theory for thin elastic shells with small strains and moderately small rotations 9381
- Jentsch, L.**  
Green's tensors for the half space with applications to thermoelasticity 837
- Jeppson, R. W.**  
Graphical solution to hydraulic jump 6310
- Jeske, T.**  
On the kinematics of a granular medium in the case of limit equilibrium state under plane strain conditions 1888
- Jester, J. L.**  
Characteristics of a finite-length MHD traveling-wave cylindrical accelerator or generator 1421
- Jhaveri, D. P.**  
*See Liu, S.-C.* 2707
- Jiji, L. M.**  
*See Miller, M. L.* 9795
- Jillie, D. W.**  
*See Hopkins, E. J.* 7305
- Jimbo, G.**  
Measurement of adhesion force of powder particles by powder bed tensile strength method 742
- Jimma, T.**  
*See Murota, T.* 131
- Jinno, H.**  
*See Kunugi, M.* 3025
- Jirgal, G. H., Jr.**  
Elastic deformation and the coefficient of friction 8383
- Jirsa, J. O.**  
Torsional strength and behavior of spandrel beams 4435  
Pattern loadings on reinforced concrete floor slabs 4475
- Jischa, M.**  
Computation of hypersonic dissociated laminar boundary layers by means of the integral relations 7299
- Jischke, M. C.**  
Application of the method of parametric differentiation to radiative gasdynamics 2099
- Johansen, K. F.**  
A simple description of the motion of a spherical pendulum 8491
- Johanson, J. R.**  
Effect of initial pressures on flowability of bins 3172  
*See also Jenike, A. W.* 7136  
*Jenike, A. W.* 9960
- Johansson, C. H.**  
Measurement of the "strength" of explosives by the ballistic mortar 4010
- John, F.**  
Lectures on advanced numerical analysis 7637
- Johns, B.**  
Long standing waves in a curved canal 5601  
On the determination of the tidal amplitude in a river estuary having an irregular topography 9174
- Johns, D. J.**  
On the fundamental frequency of a square plate symmetrically supported at four points 7815
- Johns, K. A.**  
*See Landsberg, P. T.* 9766
- Johnsen, R. L.**  
*See Guentert, D. C.* 9112
- Johnson, A. A.**  
The effects of the hydrostatic pressure in a deep ocean on the mechanical behavior of metals 1098
- Johnson, B. H.**  
Plasma velocity determination by electrostatic probes 7495
- Johnson, B. L.**  
Actual popping pressure of a relief valve with a real helical spring under dynamic load 6436
- Johnson, C. V., III**  
Optical and mechanical properties of birefringent polymers 3562
- Johnson, D.**  
Optimum elastic design of redundant trusses 7959
- Johnson, D. E.**  
*See Chou, S.-C.* 5274
- Johnson, D. R.**  
Procedure for calculating the loudness of sonic bangs 4865
- Johnson, F. T.**  
Approximate finite-thrust trajectory 5766
- Johnson, G. D.**  
Velocity distribution and its effect on the accuracy of the Gibson method of water measurement 9748
- Johnson, G. L.**  
The permanent deformation of a portal frame subjected to a transverse impulse 7863
- Johnson, J. A.**  
A three-dimensional model of the wind-driven ocean circulation 2416
- Johnson, J. L.**  
*See Smoller, J. A.* 3276
- Johnson, J. N.**  
Dislocation dynamics and steady plastic wave profiles in 6061-T6 aluminum 7854
- Johnson, K. G.**  
*See Hamer, H. A.* 4846
- Johnson, K. L.**  
The onset of yield in the cold rolling of thin strip 7889
- The correlation of indentation experiments 8523  
Strength of surfaces in rolling contact 10016
- Johnson, K. R.**  
Correlation function of teleseismic noise 3190
- Johnson, L. E.**  
*See Denman, E. D.* 3243
- Johnson, P. M.**  
Free surface velocity measurement of an impacted projectile by optical Doppler shift 9126
- Johnson, R. L.**  
Model making and slicing for three-dimensional photoelasticity 301  
*See also Ludwig, L. P.* 1570  
*Buckley, D. H.* 4965  
*Wisander, D. W.* 4968  
*Zuk, J.* 7157
- Johnson, R. P.**  
Stud shear-connectors in hogging moment regions of composite beams 4478  
Research on steel-concrete composite beams 7114
- Johnson, R. S.**  
The effect of air compressibility in a first approximation to the ship slamming problem 1561
- Johnson, R. W.**  
*See Brock, H. T., Jr.* 9917
- Johnson, S. W.**  
Gravity and atmospheric pressure effects on crater formation in sand 3515  
*See also Selheimer, H. E.* 4374
- Johnson, T. R.**  
The influence of vortex generators on the drag and heat transfer from a circular cylinder normal to an airstream 2270
- Johnson, W.**  
Upper bounds to the load for the transverse bending of flat rigid-perfectly plastic plates: Part 1, Using hodographs - a new and simple approach; Part 2, An analogy - slip line fields for analysing the bending and torsion of plates 7753  
*See also Watt, W.* 4237  
*Al-Hassani, S. T. S.* 8706
- Johnson, W. B., Jr.**  
*See Lenschow, D. H.* 734
- Johnson, W. K.**  
*See Babb, A. F.* 3668
- Johnston, C. D.**  
Influence of drying on strength of concrete specimens 3576  
Testing concrete in tension and in compression 5360
- Johnston, J. P.**  
Some effects of inlet blockage and aspect ratio on diffuser performance 9668  
*See also Wolf, S.* 4595
- Johnston, J. R.**  
*See Gray, H. R.* 9542

- Johnston, K. D.  
See Fisher, M. J. 3757
- Johnston, R. C.  
See Bartel, D. L. 8395
- Jones, A. F.  
The flow induced by torsional oscillations of infinite planes 420  
The model of a single infinite disk oscillating about a state of steady rotation 2085  
The resonance effect of a disk oscillating about a state of steady rotation 8142
- Jones, A. S.  
See Deakin, M. A. B. 9212
- Jones, A. T.  
Vibration of beams immersed in a liquid 7806
- Jones, C. E.  
See Whetstone, W. D. 6959
- Jones, C. N.  
Influence charts and the vector properties of configuration factors 5671
- Jones, D. I. G.  
See Nashif, A. D. 2702
- Jones, D. L.  
See Hyland, R. N. 2358
- Jones, E.  
Piezoelectric shakers for wide-frequency calibration of vibration pickups 1501
- Jones, E. E.  
See Brown, R. K. 864
- Jones, G. W.  
Big steel-truss roof welded on ground, lifted into position 7145
- Jones, H.  
A comparison of theory with experiment for diffusion creep in metal foils and wires 2589
- Jones, H. F.  
Comparative studies of butane, propane, and a commercial L.P.G. as engine fuels 9842
- Jones, J. G.  
The speed response of an aircraft constrained to fly along a straight path in the presence of turbulence at low altitude 2930
- Jones, J. P.  
Dynamics of a flexibly bonded two-layered Timoshenko-type cylindrical shell 1866  
Pulse propagation in a poroelastic solid 5256
- Jones, M. H.  
Sharp cone drag measurements in a rarefied hypersonic flow 3768  
Solids in static contact 4089
- Jones, N.  
Combined distributed loads on rigid-plastic circular plates with large deflections 946  
The collapse pressure of a flush cylindrical nozzle intersecting a conical pressure vessel axisymmetrically 2810  
See also Hansberry, J. W. 5156
- Jones, N. B.  
New method for identification and synthesis of linear systems from frequency-response data 8462
- Jones, O. E.  
Shock-induced dynamic yielding in copper single crystals 7866  
See also Kennedy, L. W. 2717
- Jones, P.  
See Cox, A. R. 5319
- Jones, R. A.  
Preliminary surveys of the wall boundary layer in a Mach 6 axisymmetric tunnel 3739
- Jones, R. E.  
See Niedzwiecki, R. W. 7475
- Jones, R. S.  
Hovercraft skirt development: An engineering and performance review 4085
- Jones, W. L.  
Reflection and stability of waves in stable stratified fluids with shear flow: A numerical study 494  
The transport of energy by internal waves 5597
- Jones, W. L., Jr.  
See Duckett, R. J. 3964
- Jones, W. M.  
Viscous drag and secondary flow in granular beds 4039
- Jones, W. P.  
See Launder, B. E. 4607
- Jonkman, R. M.  
See Patrick, R. M. 3947
- Jonsson, V. K.  
See Sood, N. S. 8119
- Jordaan, I. J.  
A creep rig for testing concrete under multiaxial compressive stress 5362
- Jordaan, J. M., Jr.  
Simulation of waves by an underwater explosion 2414
- Jordan, P. F.  
Remarks on applied subsonic lifting surface theory 8128
- Jordan, S.  
MAGIC: An automated general purpose system for structural analysis: Vol. 2, User's manual 3586
- Jorgenson, J. L.  
Probability of plastic collapse failure 1977
- Josenhans, W. T.  
A modified ballistic method for measuring axial mass displacement caused by breathing 6748
- Joseph, D. D.  
Eigenvalue bounds for the Orr-Sommerfeld equation: Part 2 8041  
Uniqueness criteria for the conduction-diffusion solution of the Boussinesq equations 9798  
See also Mott, J. E. 4564  
Fu, T. S. 7224  
Fife, P. C. 8199
- Joshi, D.  
Investigations on torsional modulus of elasticity of copper, silver and gold at elevated temperatures 6224
- Joshi, S. G.  
Excitation and detection of surface elastic waves in piezoelectric crystals 1043
- Joss, J.  
Raindrop size distribution and sampling size errors 2425
- Jossa, P.  
A theoretical investigation on cracking in reinforced concrete members 340
- Joubert, P. N.  
See Perry, A. E. 477  
Johnson, T. R. 2270  
Hoffman, E. R. 8410
- Joung, K. S.  
Derivation of axisymmetric flexural vibration equations of a cylindrically anisotropic circular plate 6955
- Journet, H.  
See Coin, A. 6029
- Jovane, F.  
Some extrusion studies of the eutectic alloy of Pb and Sn 3521
- Joyal, A.  
On the zeros of a polynomial and its derivative 5909
- Ju, F. D.  
See Martin, L. P. 4431
- Jucha, J.  
See Miller, S. 5435
- Judd, M.  
Lift effectiveness of slender wings with streamwise root gaps and fences 7323
- Judd, R. L.  
Temperature distributions in the soil 7009
- Judy, R. W., Jr.  
Stress-corrosion cracking characterization procedures and interpretations to failure—safe use of titanium alloys 4422
- Juillen, J. -C.  
See Mentre, P. 7294
- Jun, E. T.  
See Lorenzo, C. F. 7351
- Jung, R.  
Tight shut-off rotary valve for cylindrical ducting 6315
- Junger, M. C.  
High-frequency response of point-excited submerged, spherical shells 2943
- Jungwirth, K.  
Plasma instabilities excited by an azimuthal electron beam 6571  
Energy transfer of a quasi-monochromatic wave in an inhomogeneous medium 9863
- Jur, J.  
Dynamic loads of "circular" luffing jibs caused by movements of load in luffing plane 2804

- Jury, E. I.**  
See Oza, K. G. 5932
- Justus, C. G.**  
A theory for the energy spectrum of shear-dependent turbulence 7312  
See also Woodrum, A. 3211
- K**
- Kaase, J. L.**  
A mathematical model for calculating stresses in a pyrocarbon- and silicon carbide-coated fuel particle 683
- Kaattari, G. E.**  
A method for predicting pressures on elliptic cones at supersonic speeds 9655
- Kabaila, A. P.**  
Bifurcation of eccentrically loaded members and of stiffened plates 6926  
Stability analysis by finite elements 7783  
Bifurcation of space frames 8591
- Kabanov, M. V.**  
The optical transfer function for scattering media 4935
- Kabelevskii, M. G.**  
See Ostapchuk, I. I. 5832
- Kachanov, L. M.**  
On creep failures 4399
- Kachkhoeva, N. A.**  
See Barkhatov, A. N. 9442
- Kacker, S. C.**  
An experimental investigation of the influence of slot-lip-thickness on the impervious-wall effectiveness of the uniform-density, two-dimensional wall jet 5699
- Kacprzynski, J. J.**  
On the calculation of unsteady non-linear three-dimensional supersonic flow past wings 481
- Kaczkowski, Zb.**  
See Gomulinski, A. 8552
- Kadashevich, Iu. I.**  
Influence of initial microstresses on the macroscopic strain of polycrystals 3384
- Kadashevich, Yu. I.**  
Different variants of tensor-linear relationships in the theory of plasticity 6013
- Kadeckova, S.**  
See Sestak, B. 1749
- Kaden, H.**  
Theoretische Grundlagen der Datenübertragung (Theory of data transmission) 784
- Kader, B. A.**  
See Volynets, A. Z. 8467
- Kadhim, M. J.**  
Unlubricated sliding at high speeds between copper and steel surfaces 4092
- Kadish, A.**  
Stability of guiding-center plasmas in a sheared magnetic field 2306
- Kadlecek, V.**  
The relationship of concrete strength in direct tension to the slenderness ratio of the test specimens 3574
- Kaekina, T. M.**  
Investigation of methods for the excitation of normal modes in plates 2684
- Kaelble, D. H.**  
Peel adhesion: Rate dependence of micro fracture processes 7169
- Kaelin, C. R.**  
See Crane, L. S. 2015
- Kafengauz, N. L.**  
On physical nature of heat transfer at supercritical pressure with pseudo-boiling 2998  
Investigation of high frequency pressure fluctuations occurring with heat transfer to water 8222
- Kafka, V.**  
Qualitative characteristics of changes in deformation properties of steel specimens subjected to alternate tension and shear above the plastic limit 1748  
The general theory of isothermal elastic-plastic deformation of polycrystals based on an analysis of the microscopic state of stress 6864  
Changes in deformation properties of steel caused by previous plastic strain under tensile load applied in different directions 7736
- Kafkova, D.**  
Influence of the oscillatory motion of a fluid on the motion of a spherical particle 8340
- Kaga, H.**  
On the effect of tool pressure on surface roughness of shell in deep drawing process 3526
- Kagadii, S. V.**  
Slightly nonlinear oscillations of an elastic rod in conditions of free flight 6982
- Kagan (Cohen), B. A.**  
See Vager, B. G. 4063  
Marchuk, G. I. 8363
- Kagan, H. A.**  
Experimental studies of orthogonally stiffened steel plates 6908
- Kagan, M. L.**  
On the effect of the shape of a body on pressure gage readings in a rarefied gas flow 4603
- Kagan, V. A.**  
Modernization of the UKI-10m machine for low-cycle tests 4438  
Equipment for low-cycle fatigue testing of specimens in bending with rotation 6231
- Kagan, Ya. Ya.**  
A study of the energy of the seismo-acoustic pulses arising during bursts in a coal bed 2412
- Kagan, Yu. M.**  
Plasma diagnostics in a magnetic field using thin cylindrical probes 2317
- Kaganer, M. G.**  
An approximate solution of non-stationary problems of the theory of heat conduction with regard to temperature dependence of thermophysical properties on the basis of the method of Galerkin 5647  
Heat transfer by the combined effect of conduction and radiation in absorbing and scattering media 9787
- Kaganovich, S. A.**  
Testing the air heater of a closed cycle gas turbine plant 9019
- Kagawa, K.**  
See Ohtaka, K. 7824
- Kagiwada, H.**  
Optimal trajectories for quadratic variational processes via invariant imbedding 7681
- Kahl, G. D.**  
Rarefaction shock possibility in a van der Waals-Maxwell fluid 4696
- Kahn, D.**  
See Morin, S. 598
- Kahne, S. J.**  
See Konar, A. F. 803
- Kaibara, M.**  
Non-Newtonian viscosity and dynamic viscoelasticity of blood during clotting 9210  
Dynamic viscoelastic study for the structure of fibrin networks in the clots of blood and plasma 9214
- Kaila, K. L.**  
Decay rate of P-wave amplitudes from nuclear explosions and the magnitude relations in the epicentral distance range  $1^\circ$  to  $98^\circ$  9164
- Kailath, T.**  
Application of a resolvent identity to a linear smoothing problem 1643
- Kaimal, S. S.**  
Hyperbolic-paraboloidal shells as foundations 2812
- Kaipov, V. Kh.**  
See Zhivoglyadov, V. P. 3325
- Kaiser, G.**  
Damping and modulus defect during plastic deformations: Part 1, Anelasticity due to the motion of glide dislocations 5126  
See Pechhold, W. 5127
- Kaiser, H.**  
Prediction of flow of a melted plastic through a screw extruder 8016
- Kaiser, J. A. C.**  
Experiments on finite-disk generated gravity modes 3782
- Kajiya, S.**  
See Nagao, F. 4776
- Kakkar, S. S.**  
See Pradhan, B. R. 9343
- Kakosimidi, N. F.**  
Practical method of calculation of a foundation strip on a nonlinearly deformable bed 7022
- Kalaba, R.**  
See Buell, J. 5807  
Kagiwada, H. 7681

- Kalaba, R. E.**  
Dynamic programming and optimal trajectories for quadratic variational processes 813
- Kalanasundaram, C. V.**  
Direct contact heat transfer between two immiscible phases during drop formation 2264
- Kalandia, A. I.**  
Remarks on the singularity of elastic solutions near corners 6828  
Stress conditions in plates reinforced by stiffening ribs 9396
- Kalandiya, A. I.**  
Two-dimensional problems of the momental theory of elasticity 8507
- Kalashnikov, V. N.**  
*See Barenblatt, G. I.* 8912
- Kalathia, N. L.**  
Laminar jet of a compressible pseudo-plastic fluid 8017
- Kalei, G. N.**  
Some results of an experiment on micro-hardness on the interior of an impression 7947
- Kalide, W.**  
Einführung in die technische Stromungslehre: Zweite, überarbeitete und erweiterte Auflage (Introduction to applied fluid dynamics: 2nd revised and enlarged edition) 7183
- Kalimov, A. I.**  
Apparatus for dynamic testing of materials 5374
- Kalinichenko, Kh. B.**  
Fatigue fracture of steel in the low endurance range 1092
- Kalinin, E. K.**  
Heat transfer with water flowing around staggered bundles of tubes at different relative pitches 8225  
*See also Mikhailov, A. I.* 1378  
Mikhailov, A. I. 2234
- Kalinina, N. N.**  
Cases of the stability of rotation of a rigid body of variable mass 8497
- Kaliski, S.**  
Centrifugal and Coriolis forces effect on the flutter of rotating cylindrical shell immersed in a gas 622  
On a certain principle of amplification of a longitudinal discontinuity wave by means of drift effect 1051  
Thermo-magneto-microelasticity 1700  
Stability of an oscillator, the mass of which decreases as function of time 1818  
Elastic surface multiwaves on acoustic and optical branches 1874  
Perfect resonance of viscoelastic surface waves in a bounded body, with a set of oscillators or masses moving over the surface 5268  
Surface biwaves on acoustic branches for a certain model of an elastic medium 6105  
Amplification of an arbitrary non-stationary surface wave of discontinuity in an elastic body 6988  
Integral theorems for the wave-type heat conductivity equation 7547
- Amplification of a travelling wave in a discrete structure 8653  
Waveguide of elastic surface waves 9482  
*See also Drygadlo, Z.* 3476
- Kaliszky, S.**  
Vasbeton lemezek meretezese a keplekenysegat szerint (Design of reinforced concrete plates on the basis of plasticity) 7961
- Kalker, J. J.**  
The influence of the circulation of the balls in an unlubricated angular contact thrust ball bearing 4108
- Kalman, R. E.**  
Algebraic characterization of polynomials whose zeros lie in certain algebraic domains 8431  
Topics in mathematical system theory 9267
- Kaloerov, S. A.**  
Distribution of stresses in the anisotropic semi-plane with an elliptic elastic kernel 5083
- Kaloni, P. N.**  
Stress concentration effects around spherical cavity in micropolar elasticity 6843
- Kalpakjian, S.**  
Mechanical processing of materials 269  
*See also Kulkarni, K. M.* 9516
- Kalpin, Yu. G.**  
*See Noritsyn, I. A.* 6169
- Kalra, G. L.**  
*See Rao, S. S.* 6569
- Kalugin, V. M.**  
Ultrasensitive glow discharge method for visualizing hypersonic flows of rarefied gases 7284
- Kamada, T.**  
On the simple tension of a non-homogeneous anisotropic elastic plate with cracks 1723
- Kamarytova, B.**  
The solution of shells by the moire method 1953
- Kameda, H.**  
*See Goto, H.* 7567
- Kamel, A.**  
*See Yokobori, T.* 1921
- Kamel, A. M.**  
Water wave transmission through and reflection by pervious coastal structures 3208
- Kamenskii, V. A.**  
On the problem of the number of counterweights in the balancing of plane linkages 1138
- Kamimoto, G.**  
Calculations and experiments on dissociated carbon dioxide in a shock tube 1218  
The behavior of the charged particles across a shock wave in a partially ionized gas 5524  
The numerical study of flows over blunt bodies by method of integral relations 7239  
Induction velocimetry in a shock wave 9080
- Kamiyama, H.**  
*See Iso, A.* 9875
- Kamlet, M. J.**  
Chemistry of detonations: Part 4, Evaluation of a simple prediction-al method for detonation velocities of C-H-N-O explosives 5784
- Kammler, D. W.**  
Analog generation of  $1/t$  and  $1/t^2$  2491
- Kamphuis, H. J.**  
Application of spherical instantaneous kinematics to the spherical slider-crank mechanism 6293
- Kamphuis, J. W.**  
Mathematical tidal study of St. Lawrence River 9628
- Kampmann, S.**  
Torsion of thin-walled beams 1718
- Kan, N. Z.**  
*See Krein, S. G.* 8933  
Krein, S. G. 9738
- Kana, D. D.**  
Transmission characteristics of conical and cylindrical shells under lateral excitation 1014
- Kanaev, B. I.**  
Ion-cyclotron instability in the PR-5 device 4810
- Kanai, K.**  
*See Ichikawa, K.* 9719
- Kanakov, G. V.**  
Determination of the bearing capacity of piles according to the dynamic formula 5306
- Kananyan, A. S.**  
Analysis of horizontally loaded piles 6149
- Kanazawa, K.**  
Investigation of low cycle fatigue at elevated temperatures: Factors which govern number of strain cycles to failure 7908
- Kanazawa, T.**  
Fracture mechanics analysis and design of stiffener-type crack arrester 1919
- Kanchi, M. B.**  
A tridiagonal matrix method for the analysis of multistorey framed and shear walled buildings 6267
- Kane, M. F.**  
Doppler gravity: A new method 9168
- Kane, T. R.**  
A dynamical explanation of the falling cat phenomenon 2549  
Human self-rotation by means of limb movements 8394  
*See also Robe, T. R.* 5778  
Johansen, K. F. 8491
- Kang, H. S.**  
On the design of interacting multi-variable systems 4185
- Kang, S. W.**  
Analysis of condensation droplet growth in rarefied and continuum environments 9018
- Kani, G. N. J.**  
A rational theory for the function of web reinforcement 3600

- Kanninen, M. F.**  
An estimate of the limiting speed of a propagating ductile crack 1085  
A solution for a Dugdale crack subjected to a linearly varying tensile loading 8712
- Kanning, G.**  
The influence of thermal distortion on the performance of gravity-stabilized satellites 3113
- Kant, P.**  
Launch vehicle guidance, with particular reference to the Europa I and II rockets 7673
- Kantor, B. Ya.**  
Nonlinear bending of a circular plate of variable thickness 947  
Direct determination of the critical states in flexible shells 3430  
Non-linear theory of thin shells 5165  
See also Afanaseva, L. M. 2636  
Afanaseva, L. M. 6928
- Kantsel, V. V.**  
A method of determining the condensation coefficient of metal vapors 3902
- Kanwal, R. P.**  
Integral-equations formulation of classical elasticity 1709  
Hydromagnetic waves: Theory and applications 6553  
An integral equation perturbation technique in applied mathematics 9230
- Kao, J.-S.**  
Fundamental natural frequencies of circular sandwich plates 5228  
See also Dube, V. J. 5183
- Kao, S.-K.**  
Large-scale dispersion of clusters of particles in the atmosphere 4936  
Large-scale dispersion of clusters of particles in the atmosphere: Part 2, Stratosphere 4937
- Kao, T. W.**  
See Pao, H. -P. 4570
- Kapinos, V. M.**  
Heat transfer from a disk rotating in a housing with a radial flow of coolant 9020
- Kaplan, C.**  
On a generalization of the exponential integral 2475  
On some functions related to the exponential integrals 9253
- Kaplan, M. P.**  
Optimal air discharge through stall control valves when starting single-shaft gas turbine plants 1283
- Kaplan, P.**  
An investigation of the utility of computer simulation to predict ship structural response in waves 738
- Kaplan, R.**  
Methods of predicting the occurrence and type of fluid-fluid equilibria in binary systems 8981
- Kaplun, A. B.**  
Density dependence of the surface tension of liquid metals 8983
- Kapoor, M. P.**  
See Fox, R. L. 3268
- Kapoor, R. K.**  
Ice-forming nuclei and their dominant source regions 4946
- Kapp, L. B.**  
A new method of determining the transport coefficients for high pressure arcs from experimental data 2312
- Kapur, J. N.**  
Some properties of entropy of order  $\alpha$  and type  $\beta$  4698  
The role of mathematics in biomedical sciences 5887
- Kapur, K. K.**  
Random vibration using finite element approach 1011
- Kapur, V. K.**  
Magnetohydrodynamic pivoted slider bearing with a convex pad surface 6734
- Kapustin, N. M.**  
The stiffness and strength of fixture components 8701
- Kar, S.**  
See Reddy, Y. R. 8959
- Karadimas, G.**  
Two-dimensional cascades tests of a profile as defined by the Legendre hodograph method 7355
- Karasev, B. G.**  
See Vasilev, V. F. 9885
- Karashima, S.**  
High-temperature creep of nickel-iron alloys 692  
The effects of substructure on fatigue crack propagation 3548
- Karasina, E. S.**  
Calculation of heat transfer in furnaces 6530
- Karelina, N. S.**  
See Lyapkov, P. D. 7364
- Karger, A.**  
Foundations of three-dimensional kinematic geometry: Part 1 9313
- Kargu, L. I.**  
Character of the motion of an astatic gyroscope in a rotating Cardan suspension 8496
- Kariappa**  
Application of matrix displacement methods in the study of panel flutter. 619
- Karja, J.**  
See Palva, T. 1599
- Karklin, V. P.**  
Ellipticity of the trajectory of free motions of the Earth's pole 6607
- Karlashov, A. V.**  
Effect of preliminary corrosion on the fatigue strength of an aluminum alloy D 16 3556
- Karliner, V. M.**  
Dynamic testing of a driving-turbine control system 805
- Karlovich, R. S.**  
Auditory thresholds during stroboscopic visual stimulation 4115
- Karlsen, G. G.**  
Wooden structures 5441
- Karnes, C. H.**  
See Bertholf, L. D. 3483
- Karnopp, B. H.**  
Reissner's variational principle and elastodynamics 1820
- Karnopp, D.**  
Power-conserving transformations: Physical interpretations and applications using bond graphs 7657
- Karol, I. L.**  
Numerical model of the global transport of radioactive tracers from the instantaneous sources in the lower stratosphere 9969
- Karpati, K. K.**  
See Gibbons, E. V. 5422
- Karpenko, G. V.**  
The present state and future paths of scientific research in physico-chemical mechanics of materials 1082  
The Rebinder effect in corrosive and weak surface-active media 2763  
Methods of evaluating the brittleness of high-carbon steels according to the results of tests on static torsion 6225  
See Nikolin, E. S. 2757
- Karpenko, N. I.**  
Deformation of reinforced concrete due to yielding of reinforcement 7968
- Karplyuk, K. S.**  
Nonlinear wave phenomena in a high-temperature plasma 9857
- Karpov, A. G.**  
See Fedorovich, V. A. 7096
- Karpov, V. P.**  
See Sokolik, A. S. 3904  
Sokolik, A. S. 7460
- Karpunin, V. A.**  
Calculation of machine-parts for life-time in the case of nonsteady changes of the variable stresses 284  
Calculation of life spring in the case of shock loading 6277  
Calculation of compression springs for given life with given probability of nonfailure 6278  
Designing springs of minimum weight for a given life 7990  
See also Burdelov, B. V. 8750
- Kartashev, K. B.**  
Investigation of ion-cyclotron instability in a plasma blob 3944
- Kartashov, E. M.**  
See Bartenev, G. M. 2751
- Kartha, C. G.**  
Viscous behavior of cholesteric liquid crystals 8820
- Karunes, B.**  
Biomechanical research in the field of orthotics and prosthetics 4984
- Karweit, M.**  
See Corrin, S. 4621
- Kasahara, E.**  
See Tanahashi, T. 7343

- Kasai, K.**  
On the stability of a poppet valve with an elastic support: Part 2, Considering the effect of both the inlet and the outlet piping system 8031
- Kasai, T.**  
Performance characteristics and cavitation conditions of three axial-flow pump impellers 7371  
*See also* Magono, C. 7584
- Kasei, S.**  
A note on the calculation of the radial force in thread rolling 3523
- Kashiwagi, Y.**  
Periodic solutions of differential-difference equations with relay control 6783
- Kasiraj, I.**  
Fatigue damage in seismic structures 7150
- Kaskin, Ya. M.**  
Some questions of the dynamics of systems disturbed in pulses 7805
- Kassel, P. C., Jr.**  
*See* Brewer, W. D. 5701
- Kassir, M. K.**  
On the distribution of thermal stresses around an elliptical crack in an infinite solid 2385  
Size of thermal plastic zones around external cracks 3158
- Kassoy, D. R.**  
Effects of chemical kinetics on near equilibrium combustion in nonpremixed systems 3029  
Laminar boundary layers with zero wall shear, large suction, and strong adverse pressure gradients 5542  
On laminar boundary layer blow-off 8907  
*See also* Baccaglini, G. 4730
- Kastner, L. J.**  
*See* Vasy, G. S. 8030
- Kataev, Yu. P.**  
Elasto-plastic torsion of hollow thick-walled shells of the type used in blades 857
- Katagiri, K.**  
*See* Awatani, J. 7906
- Katagiri, M.**  
Unsteady magnetohydrodynamic flow at the forward stagnation point 8261  
The effect of Hall currents on the magnetohydrodynamic boundary layer flow past a semi-infinite flat plate 9065
- Kataoka, M.**  
*See* Furuhashi, R. 5090
- Kataoka, T.**  
Influence of superimposed steady shear flow on the dynamic properties of polyethylene melts 4537  
*See also* Nishiki, T. 8047
- Katayama, K.**  
Numerical methods in transient heat conduction: Part 2, Methods using a digital computer 4721  
Researches on heat and mass transfer by sublimation of ice 5696
- Measurement of thermal properties of semiconductor by utilization of the Peltier effect 5827  
A transient method of simultaneous measurement of thermal properties using a plane heat source 7405  
Numerical methods in transient heat conduction: Part 1, Methods using the analog computer 9788
- Katchalsky, A.**  
*See* Apelblat, A. 401
- Katiyar, R. S.**  
Group theoretical analysis of lattice vibrations in caesium bromide 218
- Katkov, V. L.**  
Exact solutions of certain convection problems 1336  
An exact solution in the theory of ocean currents 4929
- Katkovnik, V. Ya.**  
Optimization of a multidimensional closed system for an object with a rectangular transfer matrix 7687
- Kato, E.**  
*See* Nishigaki, K. 8117
- Kato, H.**  
On the turbulent heat transfer by free convection from a vertical plate 541  
On the penetration of a turbulent layer into stratified fluid 2909  
*See also* Iwanami, S. 9626
- Kato, J.**  
Damping effect of floating break-water 2001
- Kato, K.**  
*See* Wakao, N. 555
- Kato, S.**  
Some considerations on prevention of chatter vibration in boring operations 1852  
On milling process using a plain milling cutter with helix angle 3530  
Some considerations on prevention of chatter vibration in multi-edge rotary cutting tool 6092  
Some considerations on prevention of chatter vibration in multi-edge rotary cutting tool 7833
- Kato, Y.**  
The cyclotron and Cerenkov mechanisms for exciting hydromagnetic radiation in the magnetoactive plasma 3087
- Katriel, J.**  
A simple solution of the linear potential problem 4146
- Kats, I. Ia.**  
On the stability in first approximation of systems with random lag 2517
- Katsanis, T.**  
FORTRAN program for calculating transonic velocities on a blade-to-blade stream surface of a turbomachine 2950
- Katsev, I. L.**  
The diffuse reflection of a light flash from a medium bounded by an underlying surface 5842
- Katsnelson, B. D.**  
An experimental study of pulsating combustion 8239
- Katsov, K. B.**  
Effect of surface-active substances on the origin of contact fatigue cracks 6204
- Katsuki, A.**  
*See* Ueno, T. 7894
- Katti, R. K.**  
An excavation and earth pressure problem for a surge chamber 8685
- Katto, Y.**  
Peculiarity of evaporating liquid-surface with reference to turbulent heat transfer 565  
Principal mechanism of boiling crisis in pool boiling 1363
- Katz, S.**  
Mechanical potential drops at a fluid branch 1160
- Katz, Y.**  
*See* Key, P. L. 2765
- Kaufman, A.**  
*See* Esgar, J. B. 9850
- Kaufman, R. E.**  
Bicycloidal crank: A new four-link mechanism 7161
- Kaul, C. N.**  
Discontinuities in shallow water 6427
- Kaura, N. N.**  
Swirling flow of water through conical pressure nozzles 6314  
Boundary layer formation on the walls of a conical pressure nozzle 9682
- Kausch-Blecken Von Schmeling, H. H.**  
A note on the paper of V. R. Regal and A. M. Leksovsky "A study of fatigue within the framework of the kinetic concept of fracture" 291
- Kavanaugh, W. P.**  
*See* Stewart, E. C. 4195
- Kavrak, I.**  
Sound radiation from vibrating objects 4013
- Kaw, P. K.**  
Nonlinear propagation of a moderately strong electromagnetic wave in a fully ionized plasma 6583  
*See also* Salat, A. 9076
- Kawada, Y.**  
*See* Nakazawa, H. 9530
- Kawaguchi, Y.**  
*See* Terada, K. 3918
- Kawahara, M.**  
*See* Horii, K. 9589
- Kawai, T.**  
Analysis of large deflection of plates by the finite element method 172  
*See also* Yoshiki, M. 5379
- Kawakami, H.**  
*See* Hayashi, C. 4143
- Kawamura, H.**  
*See* Yamada, M. 7127
- Kawasaki, S.**  
*See* Kobayashi, S. 1835

- Kawatate, K.**  
Stress distribution on the collision surface of a semi-infinite elastic plane with a rigid beam 7000
- Kawczynski, A.**  
Analysis of fatigue of heavy type rails 1931
- Kays, W. M.**  
See Simpson, R. L. 4612
- Kazak, S. A.**  
Programming the calculations of the transient processes in mechanical systems 30  
Simplified methods for calculating dynamic loads in intermittently-used machines 4524
- Kazakov, I. E.**  
Algorithm for determining probability density function of phase coordinates in a nonlinear stochastic system 8472
- Kazakov, M. N.**  
See Gonor, A. L. 5588
- Kazakov, Yu. P.**  
See Rubenkova, L. A. 4381
- Kazantsev, V. F.**  
See Belova, G. N. 4890
- Kazarinoff, N. D.**  
See Rogak, E. D. 1613
- Kazarnovskii, V. S.**  
Investigation of the bearing capacity of horizontally loaded piles in slump-type soils 4352
- Kazda, V.**  
See Hruska, K. 6999
- Kazes, E.**  
Dipole-moment operator and current algebra 8276
- Kazhdan, Ia. M.**  
Investigation of the free boundary neighborhood of a gas in motion behind a detonation wave propagating in a space with a conical cut-out 3115
- Kazimierski, Z.**  
A nonstationary flow around aerodynamic cascade of vibrating profiles 4659  
The finite-difference scheme of the method of characteristics for solution of two-dimensional unsteady gas flow equations 5533
- Keast, P.**  
On the solutions of the wave equation in one space dimension under derivative boundary conditions 8420
- Keckler, W. G.**  
See Larson, R. E. 2544
- Keenan, J. H.**  
Steam tables: Thermodynamic properties of water including vapor, liquid, and solid phases—English units 2199  
Thermodynamics 9762
- Keener, E. R.**  
Use of Preston tubes for measuring hypersonic turbulent skin friction 1205  
See also Hopkins, E. J. 3734
- Keer, L. M.**  
Transient response of an elastic shell in plane strain 5262  
See also Fu, W. S. 2571  
Sve, C. 4232
- Keffer, J. F.**  
A note on the expansion of turbulent wakes 9698  
See also Portfors, E. A. 3753
- Kehat, E.**  
See Letan, R. 1375  
Letan, R. 4042
- Keintzel, E.**  
Analysis of elastically supported perforated walls subjected to horizontal loads 2811  
Simplified calculation of the spatial combined effect of walls with many series of openings 8792
- Kekre, H. B.**  
Determination of linear system parameters by using polynomial inputs 4169  
See also Chandrasekhar, J. 3314
- Kelkar, V. S.**  
Stresses in a cylindrical shell supported by a core of a different material 159  
See also Flugge, W. 7700
- Kelleher, M. D.**  
Heat transfer response of laminar free-convection boundary layers along a vertical heated plate to surface-temperature oscillations 6492
- Kellenberger, W.**  
Mechanical stresses in commutator segments due to inset shrink-rings: A problem of rigidity in orthotropic cylinders 7714
- Keller, C. L.**  
Computing error bounds when the truncation error and propagated error are of the same order 9224  
See also Breiter, M. C. 2482
- Keller, G. H.**  
Engineering properties of some sea-floor deposits 7868
- Keller, H. B.**  
Positive solutions of some nonlinear eigenvalue problems 5897  
Accurate difference methods for linear ordinary differential systems subject to linear constraints 7644
- Keller, H. H.**  
Radiation heat transfer for annular fins of trapezoidal profile 5673
- Keller, J. B.**  
Internal wave propagation in an inhomogeneous fluid of nonuniform depth 6422  
See also Ahluwalia, D. S. 3479
- Keller, J. D.**  
See Wright, R. H. 8171
- Keller, R. B.**  
See Zielke, W. 8139
- Kelley, C. R.**  
Manual and automatic control: A theory of manual control and its application to manual and to automatic systems 7655
- Kelley, H. J.**  
Rocket trajectory optimization by a second-order numerical technique 1462
- Kelley, J. G.**  
Evaluation of the driver chamber efficiency for an arc driven shock tube 4826
- Kelley, J. P.**  
See Denman, E. D. 3243
- Kellow, M. A.**  
The measurement of temperatures in forging dies 5309
- Kelly, J. M.**  
See Gillis, P. P. 1041  
Wilshaw, T. R. 2722
- Kelly, R. E.**  
On the stability of oscillating, plane Couette flow 8133
- Kelman, R. B.**  
Flow past a cave: A problem in potential theory 5467
- Keltnhofer, W. J.**  
Wall temperature and Prandtl number effects on turbulent boundary-layer thickness and shape factors for subsonic compressible gas flow over a flat plate 4611
- Kemp, J. H., Jr.**  
Hypersonic viscous interaction on sharp and blunt inclined plates 6346  
The Ames M-50 helium tunnel 7379
- Kemp, K. O.**  
See McNeice, G. M. 7122
- Kemp, N. H.**  
Distribution of a trace element in a boundary layer with mass transfer 7288
- Kemper, A.**  
Wear measurements by means of  $\gamma$ -X-fluorescence 1580
- Kempke, W.**  
See Seireg, A. 6735
- Kempner, J.**  
See Allentuch, A. 5179
- Kempner, M. L.**  
Application of the method of dynamic rigidities to the calculation of the simultaneous oscillations of the blades of axial turbines 4301
- Kendall, D. P.**  
See Underwood, J. H. 4388
- Kendall, J. M.**  
The turbulent boundary layer over a wall with progressive surface waves 8116
- Kenis, P. R.**  
Turbulent-flow drag reduction by polymers from marine and fresh water bacteria 4960
- Kennedy, B. W.**  
Thin-film temperature sensor 2969
- Kennedy, J. B.**  
Ultimate capacity of single bolted angle connections 2034
- Kennedy, J. S.**  
See Walkinshaw, D. S. 8612

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Kennedy, L. A.**  
See Switick, D. M. 2302
- Kennedy, L. W.**  
Longitudinal wave propagation in a circular bar loaded suddenly by a radially distributed end stress 2717
- Kennedy, R. G.**  
The effect of vibration on micro-hardness testing 6240
- Kennel, C. F.**  
Collisionless shock waves in high  $\beta$  plasmas: Part 1 2323  
Collisionless shock waves in high  $\beta$  plasmas: Part 2 2324
- Kenner, V. H.**  
Longitudinal impact on a hollow cone 1864
- Kennerud, K. L.**  
Analysis of performance degradation in CdS solar cells 9913
- Kent, A.**  
Stability of laminar magnetofluid flow along a parallel magnetic field 4804
- Kent, G. I.**  
Transverse Kelvin-Helmholtz instability in a rotating plasma 6563
- Kentfield, J. A. C.**  
The performance of pressure-exchanger dividers and equalizers 8957
- Kenyon, K. E.**  
Stokes drift for random gravity waves 5844
- Kenyon, R. A.**  
An extended figure of merit for the plasma thermocouple 6468
- Kephart, J. T., Jr.**  
One-way air chambers for pumping plants 4650
- Kercher, D. M.**  
Heat transfer by a square array of round air jets impinging perpendicular to a flat surface including the effect of spent air 9801
- Kerimov, A. M.**  
Investigation of the isochoric specific heat of water and steam near the critical point 7395
- Kermabon, A.**  
A deep-sea electrical resistivity probe for measuring porosity and density of unconsolidated sediments 3196
- Kerr, R. A.**  
See Morgan, E. J. 4889
- Kerter, E. H.**  
Remarks on the nature of relativistic particle orbits 8498
- Kerr, A. D.**  
An extended Kantorovich method for the solution of eigenvalue problems 1758  
An application of the extended Kantorovich method to the stress analysis of a clamped rectangular plate 2627  
The linearization of the prebuckling state and its effect on the determined instability loads 6915
- Kerrick, J. S.**  
Multiple ratings of sound stimuli 1598
- Kershenbaum, N. Ya.**  
See Kershenbaum, Ya. M. 10006
- Kershenbaum, Ya. M.**  
Wear dynamics of machine parts 10006
- Kesavan, H. K.**  
Sensitivity-state models for linear systems 2494
- Kesava Rao, B.**  
See Parameswara Rao, M. 5054
- Keshava Murthy, K.**  
A generalized mathematical theory and experimental verification of proportional notches 3676
- Kesner, Z.**  
The shaping of a hall and its effects on the time distribution of the first reflections 2375
- Kessel, P. G.**  
Vibrational and stability characteristics of circular membranes subjected to gyroscopically induced inertia loads 1830  
On the response of a beam subjected to a cyclic moving load 6080  
See also Schlack, A. L., Jr. 4297
- Kesselman, P. M.**  
A method for determining the critical density of a substance in the state of saturation from experimental data 7396
- Kessler, D. J.**  
Average relative velocity of sporadic meteoroids in interplanetary space 5782
- Kesten, A. S.**  
Turbulent diffusion of heat and mass in catalytic reactors for hydrazine decomposition 9040
- Ketley, H. C.**  
See Wright, S. J. 8243
- Ketter, R. L.**  
Modern methods of engineering computation 6771
- Kettunen, P. O.**  
Cyclic hardening of copper single crystals 885
- Kevorkian, J.**  
Numerical analysis of the asymptotic solution for Earth-to-Moon trajectories 4845  
An asymptotic solution for a class of periodic orbits of the restricted three-body problem 8291  
See also Lancaster, J. E. 4002
- Key, J. E.**  
See Oden, J. T. 9323
- Key, P. L.**  
On the pop-in mode of fracture 2765  
A relation between crack surface displacements and the strain energy release rate 7054  
The effect of local yielding on the strain-energy release rate 7902
- Key, S. W.**  
A variational principle for incompressible and nearly-incompressible anisotropic elasticity 2575
- Keyes, E. J.**  
See Story, R. W. 1914
- Keyes, J. W.**  
Pressures and heat transfer on a  $75^\circ$  swept delta wing with trailing-edge flap at Mach 6 and angles of attack to  $90^\circ$  1342
- Kezdi, A.**  
Resistance of stabilized soils 246  
Strength of stabilized soils 4367
- Khabakhpasheva, Ye. M.**  
Flow of structurally viscous non-Newtonian fluids in the entrance region of a flat channel 1150
- Khachatryan, A. A.**  
See Ambartsumyan, S. A. 5983  
Peshtmalzhyan, D. V. 9391
- Khachikian, A. S.**  
See Chobanian, K. C. 105
- Khadem, R.**  
Adhesive or frictionless compression of an elastic rectangle between two identical elastic half-spaces 1720  
Axial compression of an elastic circular cylinder in contact with two identical elastic half-spaces 4229
- Khadilkar, B. S.**  
Experimental investigations of laterally loaded underreamed piles in granular soil 6146
- Khaikin, B. I.**  
Theory of thermal propagation of a chemical reaction front 5708
- Khairullina, O. B.**  
See Sidorov, A. F. 8075
- Khalil, M. G. A.**  
See Evans, R. H. 9585
- Khan, F. R.**  
See Fintel, M. 5387
- Khan, M. A. A.**  
Laminar source flow between two parallel coaxial rotating porous disks 2065  
Effect of a suction upon laminar flow along a vertical wall 6367
- Khanna, K. M.**  
Nonzero chemical potential anomaly of a free Bose gas of material particles 2959
- Khanna, S. M.**  
See Tonndorf, J. 1584
- Khanchov, A. D.**  
Plane problem of thermoelasticity for a semi-infinite orthotropic plate with mixed temperature conditions 9944
- Khanchov, B. D.**  
A method of solving linear integral and differential equations 9223
- Khapilova, V. S.**  
See Nikitin, A. K. 5482
- Kharchenko, V. N.**  
See Romanenko, P. N. 2069  
Romanenko, P. N. 3731
- Kharish, E. L.**  
See Yarema, S. Ya. 1939

- Kharlamova, E. I.**  
Kinematic interpretation of the motion of a body with a fixed point 829
- Khasin, G. A.**  
Method of estimating the carbide inhomogeneity of high-speed cutting steel 1915
- Khattab, A. F. M.**  
See Clements, M. S. 5464
- Khatttri, K. N.**  
Determination of earthquake fault plane, fault area, and rupture velocity from the spectra of long period *P* waves and the amplitude of *SH* waves 9963
- Khazan, A. D.**  
Basis for choosing a block diagram of an electromagnetic blood flow meter 8403
- Khazanov, I. I.**  
Law of distribution of endurance in fatigue tests of large components 7069
- Khazhinskii, G. M.**  
Elastic-plastic calculation of a disk in the case of nonsteady regimes 6012
- Khein, E. A.**  
Description of the creep of metals including the elastic aftereffect 9349
- Khentov, A. A.**  
Stability of rotation of an artificial Earth satellite about its center of mass in the first approximation 7519
- Khera, R. P.**  
Strength anisotropy in cohesive soils 4343
- Khermanis, E. Kh.**  
Automatic control 9268
- Khesin, G. L.**  
Apparatus for testing the viscoelastic properties of optically sensitive polymers 6236
- Khesin, Yu. D.**  
See Gur'ev, A. V. 1743
- Khidoyatov, K. V.**  
See Saidov, T. Kh. 5265
- Khilchevskii, V. V.**  
Setup for investigating the effect of constant stresses on the energy dissipation in a material 5365
- Khitarishvili, M. G.**  
Effect of surface hardening of carbon steel by high frequency induction heating on its susceptibility to stress corrosion cracking 296  
Character of polarization curves during stress-corrosion cracking 298  
Effect of heat treatment and machining on stress-corrosion cracking of carbon steel in inhibited sulfuric acid solutions 3557
- Khizhnyak, N. A.**  
See Korsunskii, A. M. 1426
- Khlebnikov, D. G.**  
See Pelek, B. L. 90
- Khlopushin, V. I.**  
See Tarasova, N. V. 6503
- Khlus, A. A.**  
Errors in spur gears due to eccentricity of base circle 7156
- Khodataev, K. V.**  
See Levin, M. L. 8277
- Khodzhaev, K. Sh.**  
Excitation of vibration  
Vibrations in a system with several electromagnetic exciters 2672  
8639
- Khojasteh-Bakht, M.**  
Analysis of elastic-plastic shells of revolution 9400
- Khokha, Yu. V.**  
See Lesunovskii, V. P. 1477
- Khokhlov, R. V.**  
See Rudenko, O. V. 9931
- Kholod, A. I.**  
See Vyskrebentsev, A. Ya 9394
- Kholzunov, A. G.**  
The design and calculation of hydraulic dampers 7837
- Khoma, I. Yu.**  
Investigation of the state of stress in plates with holes 1765  
The equations of orthotropic plates of variable thickness 5173  
Plastic regions in a plane with a circular hole in the case of pure shear 5992
- Khomasuridze, N. G.**  
Calculation of shallow spherical shells 7771
- Khomayakov, V. S.**  
Stability of rotary motion in the dynamic system of a belt transmission 7832
- Khorev, V. I.**  
See Rabinovich, G. D. 1368
- Khorolskiy, S. V.**  
See Surinov, Yu. A. 4737
- Khoroshavtsev, V. G.**  
Algorithms for determining the parameters of motion of artificial Earth satellites using cylindrical coordinates 1467
- Khoroshun, L. P.**  
The statistical theory of deformation of unidirectional fiber materials 865  
Rheological properties of rigid bodies with randomly distributed inhomogeneities 4236
- Khotina, L. D.**  
See Dubnov, L. V. 5785
- Khramov, N. E.**  
Calculation of the interaction of an axisymmetric supersonic under-expanded jet with an obstacle 6360
- Khrapkov, A. A.**  
First fundamental problem for a piecewise-homogeneous plane with a slit perpendicular to the line of separation 852
- Khrisanovich, S. A.**  
Theory of ideal plasticity 897
- Khromov, V. D.**  
See Teterin, P. K. 4908
- Khrumushin, G. I.**  
See Tarnopolskii, M. D. 6391
- Khrushchov, M. M.**  
Soviet development of laboratory wear testing methods 749
- Khrustalev, B. A.**  
Methods of determining the integral and spectral radiative properties of materials at high temperatures 5679  
Absorptivity of a tubular nonisothermal radiator 5680  
Radiative properties of tantalum, molybdenum, niobium, graphite and niobium carbide at high temperatures 6501  
See also Filimonov, S. S. 3869
- Khrustalev, L. N.**  
Thermophysical justification of construction based on the principle of retention of the frozen state of soil 2214
- Khrustalev, M. M.**  
Necessary and sufficient conditions for weak invariance 787
- Khudenko, B. G.**  
Deformation of the axes of plane-parallel jets due to turbulent mixing 3691  
See also Zhukova, L. A. 1190
- Khudayakov, G. E.**  
Aerodynamic characteristics of prismatic bodies of moderate aspect ratio 4635
- Khy-u Shak, F.**  
Optimal control of discrete processes 9302
- Kiang, R. L.**  
Nonlinear theory of inviscid Taylor instability near the cutoff wavenumber 6433
- Kibblewhite, A. C.**  
Experiment on sound propagation in shallow water under isovelocity conditions 4026  
Experiment on sound propagation in shallow water with velocity structure 6640
- Kibens, V.**  
See Kovasnay, L. S. G. 9695
- Kibler, J. J.**  
See Erdogan, F. 1786
- Kichaev, P. M.**  
See Kikolaev, B. V. 7997
- Kida, T.**  
See Onishi, Y. 7194
- Kido, S.**  
See Ishibashi, A. 6285
- Kiefer, F. W.**  
See Seed, H. B. 3519
- Kiefer, P.**  
See Huder, J. 4357
- Kiefer, R. W.**  
Airphoto interpretation of flood plain soils 7036
- Kiem, V. B.**  
See Freidin, A. S. 9624

- Kier, D. A.  
Flight comparison of several techniques for determining the minimum flying speed for a large, subsonic jet transport 7329
- Kiesling, E. W.  
Linear limit stresses of some photoelastic and mechanical model materials 2770
- Kigel, T. B.  
See Dolinskiy, A. A. 2405
- Kihara, H.  
See Ikeda, K. 5322  
Ikeda, K. 5323
- Kihira, M.  
See Kobayashi, S. 1835
- Kihlstrom, B.  
See Persson, P. A. 1904
- Kiiko, I. A.  
A cylindrical shell under axial impact loads 9421
- Kijima, J.  
See Tanishita, I. 4714
- Kikkawa, H.  
Hydraulic roles of wash load 407
- Kikolaev, B. V.  
Planetary mechanisms for transmitting motion to sealed cavities 7997
- Kikuchi, K.  
See Magono, C. 7584
- Kikuchi, Y.  
Numerical simulation of the blocking process 4948  
See also Michiyoshi, I. 8998
- Kilburn, R.  
Reducing wear in an electromagnetic clutch 2024
- Kilchevskii, N. A.  
Progress of shell mechanics in the Ukraine during the years of Soviet power 162  
Research in hydroaeroelasticity performed in the Ukraine 5755
- Kilchinskaya, G. A.  
See Kilchevskii, N. A. 5755
- Kilgore, U.  
Hydrodynamic aspects of tracked amphibians 8960
- Kilpper, R. W.  
See Collins, R. E. 3256
- Kim, C. H.  
The influence of water depth on the heaving and pitching motions of a ship moving in longitudinal regular head waves 8376  
See also Tasai, F. 5860
- Kim, C. S.  
A fundamental study of the current density distribution in a flowing nonequilibrium plasma 9058
- Kim, H. C.  
The dislocation distribution in copper after fatigue at elevated temperature 898
- Kim, K. I.  
Experimental investigation of Hall effects in a low-temperature plasma under alternating magnetic field conditions 3928
- Kim, M.  
Successive approximation method in optimum distributed-parameter systems 2539  
A variational approach to optimum distributed parameter systems 5955
- Kim, S.  
Simple equation of state at high temperatures 5629
- Kimeny, L. G.  
Measurement, simulation and control of fluctuating phenomena in nuclear reactor systems 4183
- Kimura, G.  
See Yamada, H. 497
- Kimura, R.  
See Awatani, J. 1569
- Kimura, T.  
See Katayama, K. 5696
- Kimura, Y.  
Estimation of the number and the mean area of real contact points on the basis of surface profiles 10002
- Kinbara, T.  
Downward propagation of smoldering combustion through solid materials 1399
- Kincaid, T. G.  
Estimation of periodic signals in noise 8311
- Kindler, K.  
See Becker, M. 7496
- King, B.  
Crossed-ring dynamometer for direct force resolution into three orthogonal components 7924
- King, C. -Y.  
A magnitude-energy relation for large earthquakes 1537  
Particle motion along a kinematic fault model 7564
- King, G. J. W.  
On the design of a rectangular dam with a central cut-off wall 1529
- King, I. P.  
See Zienkiewicz, O. C. 5104
- King, P. J.  
Viscosity tensor approach to the damping of Rayleigh waves 4315
- King, W. W.  
Transient elastic waves in a fluid-filled cylinder 3789  
See also Anderson, J. M. 986
- Kingsbury, E.  
Gyroscope bearing cross-torque 9319
- Kingston, J. G.  
An analysis of two-dimensional aligned-field magnetogasdynamic flows 3061
- Kinney, R. B.  
Turbulent flow, heat transfer, and mass transfer in a tube with surface suction 6513
- Kino, G. S.  
See Porkolab, M. 599
- Kinoshita, T.  
On a stochastic approach to the pulsating phenomena in the two-phase flow 8862
- Kirakosian, R. M.  
On an elastic-plastic problem of intersected conical shell of revolution 163
- Kirakosyan, R. M.  
On the elastic-plastic bending of a beam under a moving load 9367
- Kirby, G. J.  
The effect of transducer size, shape and orientation on the resolution of boundary layer pressure fluctuations at a rigid wall 8123
- Kirchgassner, K.  
Branching analysis for the Taylor problem 5490
- Kirchner, R. P.  
Stability of time-dependent rotational Couette flow: Part 1, Experimental investigation 5560
- Kirdar, E.  
See Wilson, T. T., Jr. 2838
- Kirdyashkin, A. G.  
See Leontyev, A. I. 2237
- Kireev, V. T.  
Establishment of steady-state mixing in jets 6372
- Kirichenko, N. F.  
See Martynyuk, A. A. 7800
- Kirii, A. Yu.  
Plasma transport equations 9874
- Kirilenko, V. F.  
Stiffness of corrugated walls of crane girders subjected to shearing forces 7143
- Kirillin, V. A.  
An experimental study of the density of carbon dioxide 8186
- Kirillov, I. I.  
Moisture removal in the fixed blade rows of high capacity steam turbines 577  
See also Zysin, V. A. 6539
- Kirillova, F. M.  
A trend in the theory of optimal processes: Survey 5952
- Kirillova, L. S.  
Incorrect problems in optimal control theory Survey 9298
- Kiritani, M.  
Formation of dislocation loops at low temperatures in quenched aluminum 5132
- Kirk, R.  
See Ellis, J. 6171
- Kirkby, W. T.  
Cumulative fatigue damage studies of pinned-lug and clamped-lug structural elements in aluminum alloy 7066
- Kirkman, G. A.  
See Ryley, D. J. 8177
- Kirkpatrick, A.  
Wake plasma turbulence study using an electrostatic probe array 600

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Kirkpatrick, D. L. I.  
 Analysis of the static pressure distribution on a delta wing in subsonic flow 7325  
 A method of correlating the ground effects on the longitudinal characteristics of slender wings 9714
- Kirkpatrick, J. C.  
 See Born, G. H. 9905
- Kirkwood, J. G.  
 Collected works: Shock and detonation waves 4856
- Kirmser, P. G.  
 See Goudy, R. S. 1193
- Kirmser, Ph. G.  
 See Dailey, G. 4140
- Kirpichnikov, V. M.  
 See Kazak, S. A. 30
- Kirschler, L. H.  
 A limited comparison of the mechanical strength of austenitic steel in 1200 F sodium, air, and helium 5826
- Kirsh, A. K.  
 Effect of steam wetness on the efficiency of the flow section, from results of tests on the LMZ VK-100-5 turbine low pressure cylinder 3045  
 See also Abramenko, O. B. 5720
- Kirwan, A. D., Jr.  
 Plane flow of a fluid containing rigid structures 4533
- Kirwan, R. W.  
 The application of electro-osmosis to the saturation of triaxial compression samples 8668
- Kisbocsok, L.  
 Proceedings of the third conference on fluid mechanics and fluid machinery 8147
- Kiselev, L. V.  
 See Gerashchenko, E. I. 3319
- Kiselev, M. I.  
 Magnetoelastic flutter 9081
- Kiselev, M. P.  
 See Shepelev, Yu. S. 3582
- Kiselev, Yu. A.  
 Relationship between Vickers hardness and tensile strength 4453
- Kishi, T.  
 See Gokyu, I. 3376
- Kishida, K.  
 New experimental method for determining dynamic stress-strain relation of metals 312
- Kisilitsyn, V. A.  
 See Insarov, V. V. 6100
- Kisslinger, C.  
 See Bahjat, D. S. 1033
- Kita, T.  
 See Fujii, K. 4174
- Kitagawa, H.  
 See Hamada, M. 840
- Kitaigorodskii, S. A.  
 The theory of turbulent exchange in the upper boundary layer of the ocean 729
- Kitajima, K.  
 Neutron irradiation effects on the plastic properties of pure iron 2612
- Kitatin, E. L.  
 The boundary-layer of a conducting fluid in a magnetic field 5738
- Kitaoka, S.  
 See Okubo, H. 7064
- Kitaygorodskiy, S. A.  
 Turbulent-energy dissipation in the ocean surface layer 3207  
 On the calculation of the aerodynamic roughness of the sea surface 5846
- Kitching, R.  
 Flexibility and stress factors for mitered bends under in-plane bending 8789
- Kitover, K. A.  
 Problem of the axisymmetric strain of short conical shells 9386
- Kitovich, V. V.  
 Optimal sizes of magnetic film matrices 5957
- Kiusalaas, J.  
 On the stability of elastic systems under retarded follower forces 9472
- Kiyama, H.  
 See Oka, Y. 7086
- Kjar, A. R.  
 Southwell plot extensions 5189  
 Lateral load effects in instability problems 5194
- Kjelaas, A. G.  
 See Gjessing, D. T. 1548
- Klann, J. L.  
 Steady-state analysis of a Brayton space-power system 7515
- Klapp, E.  
 Investigations of the elastic stability of tubes with flow inside 6072  
 See also Kremer, H. 7314
- Klassen-Neklyudova, M. V.  
 General-purpose materials testing machine for testing materials at temperatures to 2000°C 9153
- Klatt, M.  
 See Williams, C. E. 1479
- Klaus, E. E.  
 See Ling, F. F. 4104
- Kleesattel, C.  
 Uniform stress contours for disk and ring resonators vibrating in axially symmetric radial and torsional modes 207
- Kleimenov, A. F.  
 Oscillations in nearly-Lyapunov self-contained systems with lag 1609
- Klein, E. J.  
 Exploratory investigation on the measurement of skin friction by means of liquid crystals 6395
- Klein, G. K.  
 Stability of tower structures with shallow footings on soil 6141
- Klein, K.  
 See Migdal, D. 2091
- Klein, W. R.  
 See Riley, W. A. 1493
- Kleinman, A. J.  
 See Kushner, H. J. 4197
- Klekers, A. J.  
 See Edmister, W. C. 6472
- Klemens, P. G.  
 See Steg, R. G. 6986
- Klenerman, L.  
 Experimental fractures of the adult humerus 5888
- Klepaczko, J.  
 The strain rate behavior of iron in pure shear 890  
 On a certain case of anisotropy 6015
- Klepp, H. J.  
 Contribution to the study of the spectrum of bending oscillations of a rod excited by friction 7809  
 See also Salceanu, C. 9471
- Kleshchev, S. I.  
 Designing optimum thin-wall cylindrical shells with stiffening ribs 9399
- Klich, G. F.  
 See Erickson, W. D. 5709
- Kliegel, J. R.  
 Transonic flow in small throat radius of curvature nozzles 7255
- Klimas, P. C.  
 See Campbell, G. S. 8887
- Klimova, T. V.  
 See Galkin, V. S. 2881
- Kline, K. A.  
 A continuum approach to blood flow 3253  
 The relationship of pressure gradient to blood velocity based on a continuum theory of blood 4119  
 Heat conduction in fluids with substructure 7414
- Klineberg, J. M.  
 Theory of laminar viscous-inviscid interactions in supersonic flow 8059
- Klingenberg, H.  
 Quantitative experimental and theoretical investigations on the interaction of shock waves with magnetic fields 5749
- Klinzing, G. E.  
 Pressure distribution downstream from a heart valve for steady flow in a foam damped silastic tube 5882
- Klokholm, E.  
 An apparatus for measuring stress in thin films 1962
- Klopfer, G.  
 See London, A. L. 2272
- Kloppel, K.  
 Exact displacement method and its approximations 1131  
 Computer analysis of load-carrying capacity of an arbitrarily loaded single-story frame with considerations of arbitrary cross sections in the plastic compression region 2801

- Klose, G. J.**  
Unsteady force measurements on  
superventilated hydrofoils in  
heaving motion 10000
- Klosner, J. M.**  
Inadequacies of piston theory in  
fluid-shell interactions 8948
- Klug, W.**  
Determination of industrial stack  
heights 9184
- Kluyev, A. S.**  
Determination of the stability  
boundary of autoregulation sys-  
tems by the amplitude-phase  
characteristics of the plant in the  
plane of parameters of regulator  
tuning 47
- Klyachkin, N. L.**  
Determining contact stresses on the  
surfaces of a bolted joint 7165
- Klygin, L. P.**  
Fatigue resistance of bimetallic  
sheets 4407
- Klyuchnikov, A. D.**  
Radiant heat exchange in a closed  
system of two grey bodies sepa-  
rated by a selectively grey iso-  
thermal medium 7435
- Klyuchnikov, N. I.**  
Thermodynamic stability of a  
plasma with strong interactions 9871
- Klyukvin, L. N.**  
Some results in forecasting the geo-  
potential field by using a quasi-  
solenoidal model 9167
- Kmonicek, V.**  
The equilibrium properties of  
carbon dioxide behind the primary  
and reflected shock waves  
Contribution to the analytical inter-  
pretation of thermodynamic func-  
tions of gases at elevated tempera-  
tures 8178
- Knackstedt, W. F.**  
On the chambrage effect in interior  
ballistics 2356
- Knapp, G. S.**  
See Dail, H. W. 4718
- Knauff, M.**  
Measurements of principal strains  
by means of photoelastic rings  
and strain gages 6211
- Kneisel, O.**  
See Miller, R. W. 1294
- Knight, W. A.**  
Application of the universal ma-  
chinability chart to the prediction  
of machine tool stability 1074
- Knightly, G. H.**  
See Cannon, J. R. 8989
- Knisel, W. G., Jr.**  
Depth-integrating and dip samplers 9637
- Knobeloch, G. W.**  
Dynamic response of a composite  
shell 1025
- Knoos, S.**  
Bypass piston tube: A new device  
for generating high temperatures  
and pressures in gases 4693
- Knopoff, L.**  
Comments on the interrelationships  
between Gruneisen's parameter  
and shock and isothermal equations  
of state 9779  
See also Mal, A. K. 1027  
King, C.-Y. 1537  
Schwab, F. 8659
- Knopp, T. J.**  
See Anderson, D. U. 6780
- Knops, R. J.**  
On the stability of a mixture of two  
elastic solids 6851  
Continuous data dependence for the  
equations of classical elastody-  
namics 8512
- Knowles, C. P.**  
The stability of the laminar natural  
convection boundary layer 3742
- Knowles, L. S.**  
See Korkan, K. D. 2865
- Knuth, E. L.**  
See Fisher, S. S. 4605
- Knystautas, R.**  
Diagnostic experiments on con-  
verging detonations 4007
- Ko, D. R. S.**  
Supersonic laminar boundary layer  
along a two-dimensional adiabatic  
curved ramp 1230
- Ko, S.-H.**  
Low Reynolds number instability  
of an incompressible half-jet 1185  
On the stability of plane Poiseuille  
flow with a finite conductivity in  
an aligned magnetic field 3063  
Viscous instability of an incom-  
pressible full jet 3685
- Kobayashi, A.**  
See Hayashi, T. 2656
- Kobayashi, A. S.**  
Crack-opening displacements and  
normal strains in centrally notched  
plates 277  
See also Iida, S. 4412  
Bradley, W. B. 6207
- Kobayashi, H.**  
See Nishiyama, T. 4557
- Kobayashi, K. K.**  
Dynamical aspects of classical  
liquids 6464
- Kobayashi, M.**  
See Barrett, G. V. 8411
- Kobayashi, N.**  
See Takahashi, R. 2257
- Kobayashi, S.**  
Natural frequency of thin plates  
The influence of the boundary con-  
ditions on the buckling load of  
cylindrical shells under axial com-  
pression 3431  
Vibration characteristics of a swept-  
back box beam 4309  
See also Niwa, Y. 6165  
Lambert, E. R. 6168  
Niwa, Y. 8783
- Kobayashi, T.**  
Effect of exhaust throttling on  
noise reduction 9929  
See also Broutman, L. J. 5318
- Kobayasi, K.**  
A method measuring thermal dif-  
fusivity of a small solid disk by  
stepwise heating 2992  
On the stochastic types of motion  
in a system of coupled harmonic  
oscillators 5246  
See also Iida, Y. 7442
- Kobele, L. Ya.**  
Points at which the Green's function  
of a system of interacting particles  
is not analytic 6470
- Kobori, T.**  
Dynamical ground compliance of  
rectangular foundation 4348
- Kobranov, G. P.**  
Method of calculating illumination  
of a space vehicle due to reflected  
solar radiation 632
- Kobrin, M. M.**  
Effectiveness of galvanomechanical  
treatment of steel 8703
- Kobyshev, A. A.**  
See Surinov, Yu. A. 5677
- Koch, B.**  
Digital measurements of the speed  
variations of shock waves by means  
of microwaves 4681
- Koch, K.-R.**  
A simple layer model of the geo-  
potential from a combination of  
satellite and gravity data 8358
- Kochendorfer, A.**  
Tests to determine the effect of  
grain size and state of stress on the  
transition temperatures of steel  
and comparison of the results with  
those of the dislocation theory of  
brittle fracture 9522
- Kocheryzhnikov, G. V.**  
Multi-component turbulent bound-  
ary layer of a plate 3749  
See also Ginzburg, I. P. 2894
- Kochetkov, A. M.**  
Bending of beams at large displace-  
ments 2619
- Kocheva, M. D.**  
On the oscillations of a double  
pendulum 2547
- Kochina, N. N.**  
Periodic solution of the diffusion  
equation with nonlinear boundary  
condition 3277  
A solution of the one-dimensional  
diffusion equation in a bounded  
region 8188
- Kocks, U. F.**  
See Kettunen, P. O. 885
- Kodnar, R.**  
The solvability of systems of  
algebraic equations of the non-  
linear theory of plates and shallow  
shells 948  
The problem of bifurcation points  
for slender webplates and flat shells 7793
- Koelov, L. F.**  
Investigation of the hydrodynamic  
stability of a boundary layer in the  
presence of suction or blowing 7302

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Koenig, H. A.  
Finite deflections of an elastic circular plate with a central hole 919  
*See also* Llorens, R. E. 7723
- Koenigsberger, F.  
*See* Pal, A. K. 1075
- Koepsel, W. W.  
*See* Krishen, K. 7532
- Kofman, V. D.  
*See* Insarov, V. V. 6100
- Koga, T.  
The axisymmetric buckling of initially imperfect complete spherical shells 1807
- Kogaev, V. P.  
Simulation of metal fatigue by the Monte Carlo method 281  
*See also* Serensen, S. V. 7912
- Kogan, B. I.  
Vibrations of a rotating disk with partial retardation 7814
- Kogan, I. N.  
Tubular vibrator with lumped masses at the ends as a viscometer 517
- Kogan, M. N.  
*See* Vlasov, V. I. 3866
- Kogan-Volman, G. I.  
Damping properties of flexible shafts 3474
- Kogarko, S. M.  
Examples of the generation of shock waves in a liquid 7534
- Kogelman, S.  
Stability of spatially periodic supercritical flows in hydrodynamics 7226
- Kohlmayr, G. F.  
Characterization of single-blow temperature responses by first moments 2975
- Kohr, R. H.  
*See* Thompson, J. G. 6787  
*Sprague, C. H.* 9275
- Koibuchi, K.  
*See* Ohno, H. 1930
- Koidan, V. S.  
Dynamic characteristics of a straight turbulent discharge 4801
- Koiter, W. J.  
A translation of the stability of elastic equilibrium 7780
- Koizumi, M.  
High space heat release and low excess air combustion of heavy fuel oil using exhaust gas recirculation method 9840
- Kojima, S.  
Spectral width of plasma oscillations 9070
- Kokorev, L. S.  
Method for calculating velocity distribution of turbulent flow in noncircular channels 6368
- Kokoshvili, S. M.  
Wave propagation in a long polymer rod 8656
- Kokotailo, I. V.  
Determination of the size effect in fatigue testing vacuum-poured steels 2760
- Kokotovic, P.  
Sensitivity comparison of optimal controls 61
- Kokotovic, P. V.  
*See* Salmon, D. M. 1653
- Kokurin, Yu. L.  
Investigation of the physical libration of the Moon by an optical location method 1457
- Kolacin, T.  
The influence of dry friction characteristics on the stability of self-excited vibration of a certain mechanical system 5248
- Kolar, A.  
The ultimate load limit state of continuous beams under live-load 911  
On the evaluation of ultimate loads of continuous beams under the action of live loads 9572
- Kolathaya, V.  
Eigenfunctions for the symmetrical deformations of a cylinder whose plane faces are stress-free 8510
- Kolb, H.  
Studies on the strength of end-jointed and curved structural parts of laminated wood 917
- Kolbe, O.  
Maximal optimal solutions of special rendezvous problems 4004  
*See also* Schiehlen, W. 8302
- Kolchayan, T. G.  
*See* Gasparyan, A. M. 9642
- Kolchin, N. I.  
*See* Veitz, V. L. 1854
- Kolesnichenko, L. F.  
Effect of certain hardening treatments on friction and wear of metals 743  
Application of a dilatometric method for investigating processes taking place during friction between metal surfaces 2433
- Kolesnikov, N. P.  
*See* Krendele, L. A. 9388
- Kolesov, Iu. S.  
*See* Berezhnoi, V. N. 7621
- Kolgadin, V. A.  
*See* Strelbitskaya, A. I. 1769  
*Strelbitskaya, A. I.* 1770
- Kollar, L.  
Determination of natural frequencies of horizontal vibration of tall building frames 3463
- Kollbrunner, C. F.  
Displacement method in the theory of thin-walled members, and a new calculation-model for the thin-walled bars with deformable contours 2014  
Torsion in structures: An engineering approach 9339  
Displacement theory for thin walled prismatic members: Theory of folded plates 9373
- Kollmann, F.  
The alteration of texture and properties of wood by mechanical and thermal stresses 5830
- Kollmann, K.  
Journal bearings with arbitrary form of oil film thickness 4110  
Experimental investigation of the stiffness and damping coefficients of turbine bearings 5237  
The time variation of the geometry of the oil film in a journal bearing because of changes in temperature and pressure 7595
- Kolmogorov, V. L.  
Principle of possible variations of the stressed and strained state 2602
- Kolokoljchikov, V. V.  
Torsion of an initially bent elastoplastic thin-walled tube 2640
- Kolomytsev, B. M.  
*See* Zarkhin, V. I. 9140
- Kolotushkin, S. A.  
*See* Shur, E. A. 8725
- Kolovskii, M. Z.  
*See* Vul'fson, I. I. 6970
- Kolozsvary, Z.  
Contribution to the study of surface fatigue in sliding wear 1573
- Kolyano, Yu. M.  
Temperature fields and stresses in heated anisotropic plates with a reinforced edge 670
- Komai, K.  
*See* Endo, K. 289  
*Endo, K.* 2761
- Komaki, K. -i.  
*See* Fujimoto, F. 3941
- Komar, V. K.  
Generation and propagation of ultrasonic noise in electrically inhomogeneous CdS crystals 6643
- Komarov, E. A.  
*See* Solomin, V. I. 2629
- Komarova, L. N.  
Radiation from shells 7524
- Komarovskii, L. V.  
Method for solving the problem of a runaway piston in a tube 3713  
Lagrange problem with additional influx of gas 3714
- Kombalov, V. S.  
*See* Kragelsky, I. V. 8382
- Komissarov, A. F.  
Braking moments in hydraulic motor drives transmitted via a flexible clutch 8799
- Komkov, V.  
A note on the vibration of thin inhomogeneous plates 203
- Komlos, K.  
Factors affecting the stress-strain relation of concrete in uniaxial tension 1124
- Komraz, L. A.  
Bifurcations of the fixed points of a point transformation under which a root of the characteristic polynomial passes through the value  $\lambda = -1$  980  
Dynamic characteristic of an electromagnetically driven trigger regulator 8474

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Konar, A. F.  
Sensitivity aspects of linear digital control systems 803
- Kondakov, L. A.  
Modern hydraulic sealing methods 4516
- Kondo, K.  
On the two main currents of the geometrical theory of imperfect continua 5130  
See also Hayashi, T. 2651
- Kondratenko, V. G.  
See Semenov, E. I. 9517
- Kondratev, K. Ya.  
See Vinogradov, B. V. 1556
- Kondratev, N. Ya.  
Handbook of astronautics 1455
- Kondratev, V. A.  
Asymptotic solution of the Navier-Stokes equation near the angular point of the boundary 2071
- Kondratyev, N. S.  
See Amenitskiy, A. N. 3848
- Konieczny, S.  
See Baranski, W. 1724
- Konig, H.  
Control and stability of the final stage of recoverable aerodynamic space carrier systems 3997
- Konig, J. A.  
A shakedown theorem for temperature dependent elastic moduli 4035
- Konig, M.  
See Koch, B. 4681
- Konkov, A. A.  
Experimental study of spectral properties of high-temperature air 2990
- Konkov, A. S.  
See Vikhrev, Yu. V. 2258
- Kono, K.  
See Ota, H. 4295
- Kononenko, V. I.  
See Artamonov, A. Ya. 3536
- Kononenko, V. O.  
Spatial nonlinear vibrations of solid bodies 6938  
Determination of the characteristics of nonlinear elements of vibrating system from an analysis of their motion 8604
- Kononenko, V. S.  
Precision method for measuring the velocity of ultrasound in a liquid at 0.7-30 MHz 7541
- Konopelko, I. N.  
See Mitor, V. V. 5676
- Konoplenko, V. P.  
Micromechanical methods of materials testing: Survey 7100
- Konorski, A.  
Equations of two-phase flow 3684
- Konosevich, B. I.  
Two particular solutions of the problem of motion of a body with a fixed point 2551
- Konovalov, A. A.  
Calculation of captive springs 5428
- Konovalov, A. N.  
See Danilov, V. L. 8349
- Konovalov, E. G.  
Testing materials subjected to compound dynamic loading 7938
- Konovalov, L. V.  
Influence of brief overloading on fatigue strength of steels under variable loading 3547
- Konovalyuk, I. P.  
Diffraction of a plane sound wave by a plate reinforced with stiffness members 3127
- Konstantinov, M. S.  
Experimental determination of mass moments of inertia 3347
- Kontarev, G. I.  
See Drobyazko, B. S. 7344
- Konwerski, T.  
Calculation of the transient response of lumped linear systems from their frequency response 8461
- Koo, J. K.  
The measurement of diffusivity in fully developed turbulent pipe flow 7317
- Koob, S. J.  
Investigation of a method for the general analysis of time-dependent two-dimensional laminar boundary layers 2892
- Kooy, J. M. J.  
On the influence of a finite speed of gravitation in celestial mechanics 9903
- Kopachevskii, N. D.  
Hydrodynamics in weak force fields: Small oscillations of an ideal liquid 489
- Kopasenko, V. V.  
Bending of a strip 85  
Contact problem of elasticity theory for a half-strip 860  
See also Aleksandrov, V. M. 1721
- Kopchenova, N. V.  
Estimation of the error in determining the deflection of a plate by the method of successive approximations 6894
- Kopczynski, L.  
Dynamic stability of an isotropic circular plate under variable torsional load 9473
- Kopecky, J. A.  
Closed brain injuries: An engineering analysis 4114
- Kopecky, V.  
A remark on the drift dissipative instability of weakly ionized plasma 9071
- Kopeliovich, A. M.  
See Zenkevich, Yu. V. 3011
- Koplik, B.  
See Grossman, P. L. 1839  
Padovan, J. 9448
- Kopnin, Yu. M.  
Evolution of satellite orbit under a small disturbing force, constant in magnitude and direction 629  
Equations of the three-dimensional motion of a satellite with aerodynamic lift 2348
- Kopnov, V. A.  
See Protasov, V. D. 111
- Kopp, I. Z.  
See Gelman, L. I. 3875
- Koppel, L. B.  
Optimal feedback control of a class of distributed parameter systems with space-independent controls 2538
- Koppenwallner, G.  
Experimental investigation of the pressure distribution and drag of circular cylinders under a lateral flow at hypersonic Mach numbers and in the regimes from continuum to free molecular flow 8087
- Koppler, H.  
See Hampe, E. 1778
- Koranyi, I.  
Stability analysis of fixed-end frames with inclined columns 5195
- Korbut, B. A.  
Natural vibrations of a cylindrical panel on an elastic foundation 210  
Stability under external radial pressure of cylindrical shells with an elastic core 1809
- Korchinskiy, A. A.  
See Dolinskiy, A. A. 2405
- Kordecki, Z.  
On influence of cranes on supporting structure 3605
- Kordonskiy, Kh. B.  
See Gertsbakh, I. B. 9527
- Koreeda, A.  
See Awatani, J. 7906
- Koreleski, J.  
Approximate calculations of skew bridge bays 3611
- Korennova, A. I.  
See Livshits, M. A. 569
- Korites, B. J.  
The influence of dissipative heating on the loss factor of a viscoelastically damped beam 6094  
A numerical technique for estimating the response of a gravity corer penetrating a marine sediment 6136
- Koritysskii, Ya. I.  
Design of shafts rotating in bearings with four degrees of freedom 3443
- Korkan, K. D.  
Boundary of underexpanded axisymmetric jets in still air 2865
- Korkegi, R. H.  
Limit case for supersonic inviscid flow in the corner of intersecting wedges 432  
See also Ball, L. O. W. 9687
- Korn, A.  
The approximation of stability effects on frames 1803
- Kornev, V. M.  
See Grigolyuk, E. I. 993
- Kornfeld, P.  
See Alterman, Z. S. 9967
- Kornilov, A. A.  
Determining fatigue strength of sheet materials 7935

- Kornoushenko, E. K.  
Partitioning the states of a finite automaton into classes 4182
- Korntheuer, H.  
Elastic and plastic behavior of copper whiskers below the yield point 892
- Kornychukhin, I. P.  
See Labuntsov, D. A. 1526
- Korobeinikov, V. P.  
The problem of point explosion in a detonating gas 6620  
See also Jeffrey, A. 5745
- Korobkin, V. V.  
Laser measurement of electron density in a plasma 4838
- Korobov, V. P.  
Load-deformation condition of a double-layered conical shell with consideration of creep 1510
- Korolev, G. A.  
See Lapshov, V. N. 582
- Korolev, V. I.  
Stability of spherical shells beyond the elastic limit 970
- Koroleva, E. M.  
Stability of a cylindrical shell in the bending state of stress 1808
- Korotkina, M. R.  
The statistical theory of deformation 1710  
On couple stresses: Part 1, A model of a simple structure 8517
- Korotkov, A. I.  
See Belyaev, A. F. 5706
- Korovkin, M. D.  
Bending displacements of internal gear teeth 5433
- Korshin, I. M.  
Experimental investigations of the flow in the working rotor of the model of a centrifugal compressor 8152  
Effect of nonuniformity of flow on egress from the rotor of a turbo-compressor on the working of a bladed diffuser 8153
- Korshunov, L. G.  
Effect of electrization and small direct currents on the wear of metals in sliding friction 3233
- Korshunov, Yu. M.  
Optimal nonlinear filters for smoothing, prediction, and differentiation using a finite number of discrete values 5950
- Korsun, A. S.  
See Kokorev, L. S. 6368
- Korsunskii, A. M.  
Electron beam instability in crossed magnetic and inhomogeneous electric fields 1426
- Kortnev, A. V.  
See Dubrovskii, E. N. 8485
- Kortnev, V. V.  
Automatic equipment for determining thermal conductivity coefficients of ceramics 4753
- Korzhev, V. I.  
See Nedavniy, V. S. 8469
- Kosa, L.  
Application of water jet pumps in the bilge-water system of ship 8158
- Kosa, M.  
Some perspective methods of measuring the humidity of materials, convenient for automation 5029
- Kosachev, V. V.  
Relativistic corrections to the distribution functions of particles in a high-temperature plasma 3957
- Kosachevskii, L. Ia.  
Magnetoacoustic waves in two-component media 6555
- Kosarev, A. A.  
A method of simulating some heat conduction problems with moving boundaries 5002
- Kosowski, S.  
The structure of a shock wave in an ultrarelativistic gas 3709
- Kossecka, E.  
Theory of dislocation lines in a continuous medium 2582
- Kossecki, J.  
One-dimensional motion of a dislocation in a field of concentrated forces 896  
Edge dislocation in a viscoelastic medium 1734  
The motion of a concentrated dislocation within the field of dislocation with finite surface 7738
- Kostak, B.  
A new device for in-situ movement detection and measurement 3566
- Kostenko, N. A.  
Statistical distribution of the mechanical properties of cast components 9519
- Koster, H.  
See Das, A. 8170
- Kostetskii, B. I.  
Analysis of energy balance in sliding friction of metals 8385
- Kostyanov, G. N.  
On calculating the long-wave radiation field 2994
- Kostylev, V. A.  
See Baranov, V. N. 4320
- Kostyleva, N. E.  
Control of the perturbed motion of objects described by differential equations with operators of differentiation on the right-hand side 3309  
Synthesis of a second-order variable-structure system without using undistorted derivatives of the error signal in the law of control 8466
- Kostyuk, A. G.  
On the theory of plastic strain of a polycrystalline material 5118
- Kostyuk, Z. D.  
The problem of measurement of static deformations with the aid of resistance strain gages 306
- Kostyukov, N. S.  
See Kortnev, V. V. 4753
- Kosushkin, G. A.  
See Vorovich, I. I. 6048
- Kosyak, Yu. F.  
Experience of starting the KhTGZ K-300-240 turbine, using the flange and stud heating system 6536
- Kosychin, R. S.  
See Romaniv, O. N. 4455
- Kotake, S.  
On the variational principle of fluid-dynamics 4531  
Evaporation and combustion of a fuel droplet 5711  
See also Katayama, K. 7405
- Kotecki, D. J.  
Preheat effects on gas metal-arc welded ductile cast iron 7168  
See also Myers, G. E. 2211
- Kotelnikov, V. A.  
See Kubarev, Yu. V. 6572
- Kotelnikov, Yu. N.  
Noise-immune ionization manometer for plasma equipment 1449
- Kotelnikov, Yu. P.  
Determination of fatigue strength of resistance wire strain gages 5352
- Kotlyar, I. V.  
Calculation of variation in parameters of the regenerator under transient operational conditions of a gas turbine plant 4751
- Kotlyarevskii, P. A.  
See Kesselman, P. M. 7396
- Kotorynski, W. P.  
On an irregular Sturm-Liouville problem in boundary layer theory 2461  
Asymptotic solutions of the nonlinear Boussinesq equations in a paraboloidal boundary-layer 8195
- Kotousov, L. S.  
Apparatus for determining thermal-diffusion coefficients in gas mixtures 1385
- Kotsarenko, N. Ya.  
Incoherent reflection of electromagnetic waves from a plasma 3930
- Kotyuk, A. F.  
See Vasilev, A. I. 5908
- Kotzias, P. C.  
Preloading for heavy industrial installations 9498
- Koufopoulos, T.  
See Theocaris, P. S. 4427
- Koumoutsos, N.  
A study of bubble departure in forced-convection boiling 9820
- Koump, V.  
See Tien, R. H. 4903
- Kouyoumjian, R. G.  
See Hutchins, D. L. 1489
- Kovach, R. L.  
Upper mantle structure in the basin and range province, western North America from the apparent velocities of S waves 4917  
See also Anderson, D. L. 4057

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Kovalchuk, V. E.  
On the behavior of the solution of the first fundamental problem of the theory of elasticity for a long rectangular plate 9326
- Kovalenko, A. D.  
Teplovoe napryazheniya v elementakh konstruktiv: Vyp. 7 (Thermal stresses in structural elements: Issue 7) 6651  
Thermoelasticity: Basic theory and applications 7544
- Kovalev, A. M.  
The moving angular velocity hodograph in Hess' solution of the problem of motion of a body with a fixed point 9322
- Kovalev, I. A.  
See Kazak, S. A. 30
- Kovalev, Iu. M.  
On the stability of steady helical motions in a fluid of a body bounded by a multiply connected surface 2174
- Kovalev, S. D.  
Determination of the inner wall temperature of a channel in an experimental study of unsteady heat transfer 2978
- Kovalev, Yu. I.  
Efficiency of a pile system designed on the basis of static penetration data 3513
- Kovalevskaya, A. E.  
Influence of degree of admission on the operation of an inward-flow turbine 6443
- Kovalevskii, V. V.  
Optimal angle of flow on working blades of small aspect-ratio of a compressor stage 8156
- Kovalnogov, A. F.  
Experimental studies of heat transfer in tubes with local flow swirl effected by screw-type swirl generators 1376
- Kovari, K.  
On the dimensioning of underground structures 8782
- Kovasnay, L. S. G.  
Large-scale motion in the intermittent region of a turbulent boundary layer 9695
- Kovbasyuk, V. I.  
See Bityurin, V. A.
- Kovchik, S. E.  
See Libatskii, L. L. 4397
- Kovich, G.  
See Cunnan, W. S. 5616
- Kovpak, V. I.  
Results of investigations of small-cycle fatigue of heat-resistant steel 287  
See also Kuzema, Yu. A. 4907
- Kovrevskii, A. P.  
Determination of the critical numbers of revolutions of the shafts of turbines lying on elastic supports 7813
- Kowalewski, G.  
Microphotographic testing of liquid fuel spray 3038
- Kowalewski, J.  
Analysis of thermal stresses in frameworks with the aid of irreversible thermodynamics 6654
- Kowalski, A.  
Stress criterion of safety for non-conservative problems of elastic stability 972
- Koyama, K.  
See Hayashi, T. 2651
- Kozachenko, L. S.  
See Babkin, V. S. 3026  
Babkin, V. S. 5704
- Kozacok, A. G.  
Analysis of dynamic sensor errors in measuring impulses 7080
- Kozesnik, J.  
On the theory of random vibrations 1010
- Kozhevnikov, A. A.  
Local stability of a shell of revolution 6929
- Kozhevnikov, N. I.  
See Sitnik, G. F. 1552
- Kozhevnikov, Yu. V.  
On optimality principle in the average for discontinuous stochastic systems 3341  
Maximum probability that a missile will strike a given region 5788
- Kozinets, V. P.  
Heating long objects in through contact installations 5652
- Kozlov, A. K.  
See Kalinin, E. K. 8225
- Kozlov, I. A.  
Investigation of the compound stressed state using plane specimens 317  
See also Akhremenko, V. L. 6227
- Kozlov, L. F.  
Laminar boundary layer in the presence of suction 8107  
Optimal suction of the boundary layer taking account of initial turbulence and surface roughness 8905
- Kozlov, M. G.  
Study of the macro- and micro-structure of water at supercritical conditions in steam generating tubes 4710
- Kozlov, V. B.  
Thermodynamics of a multistage fluid-accelerating device 9001
- Kozlov, V. F.  
The use of single-parameter density models to study the thermohaline circulation in an ocean of finite depth 1541
- Kozlowski, T.  
See Kordecki, Z. 3605
- Kozub, Yu. I.  
Method of investigating the effect of gas media on the mechanical characteristics of refractory materials at high temperatures 694
- Kozyar, V. F.  
See Gratsinskiy, V. G. 230
- Kozyrenko, V. E.  
The hodograph transformation in plane problems of viscous magnetohydrodynamics 9057
- Kozyrev, S. P.  
The wearing effect of water vapor bubbles 2059  
Method of cavitation excitation in the immobile bulk of a liquid 2061  
Effect of surface-active substances on hydroerosion of metals 6726
- Kraemer, K.  
The flow field around a sphere at very low gas-density (Knudsen-number  $Kn \rightarrow \infty$ ) 2116  
The hypersonic, plane flow-field around a plate normal to the stream at very low gas density 4602
- Kraft, D. C.  
Flotation performance of aircraft tires on soil runways 4365
- Kragelskii, I. V.  
Evaluation of the friction properties of materials in sliding contact 5866  
See also Rybalov, S. L. 745
- Kragelsky, I. V.  
Calculation of value of stable roughness after running-in (elastic contact) 8382
- Krahula, J. L.  
A finite element solution for Saint-Venant torsion 5074
- Kraiko, A. N.  
On the solution of variational problems of supersonic flows of gas with foreign particles 2876  
See also Galyun, N. S. 2104
- Kraïnev, A. F.  
Synthesis of stepless differential gear systems 9613
- Kraj, W.  
Gas concentration in mine headings, diffusion phenomena being taken into account 8345
- Krajcinovic, D.  
A numerical method for the solution of a shell problem 5166  
A consistent discrete elements technique for thin walled assemblages 6244  
Matrix force analysis of thin-walled structures 6245  
Torsion of prismatic shells 9377
- Krakovskii, M. B.  
Experimental investigation of diaphragms of shells with a positive Gaussian curvature 931  
See also Bartenev, V. S. 7763
- Krall, A. M.  
The root locus method: A survey 8441
- Kramarovskii, B. I.  
Theory of equations of dynamics in redundant coordinates 9316
- Kramskoi, E. I.  
Design of hydraulic follower drives with fluidic amplifiers 3334
- Kranich, W. L.  
See Brown, F. C. 8046

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Krashennikov, S. Yu.  
See Yakovlevskii, O. V. 7252
- Krasikov, K. I.  
Structure and mechanical properties of materials after hydroexplosive forming 276
- Krasil'scikov, E.  
Flow around the finite span wing in the presence of a moving shock wave 4631
- Krasil'shchikova, E. A.  
Velocity field induced by a shock wave incident upon a stationary thin symmetric body 439
- Krasinskii, G. A.  
Parametric resonance in canonical systems of linear differential equations with quasi-periodic coefficients 1608
- Krasnikov, V. V.  
Investigation of heat and mass transfer in jet drying 3891
- Krasnoff, E.  
Stream deflection produced by a cascade of jet flap airfoils 7358
- Krasnoshapka, V. A.  
Investigation of forced nonlinear oscillations of a multimass mechanical system 5214
- Krasovskii, A. M.  
Device for investigation of wear resistance and antifriction properties of thin polymer coatings in vacuum 7590
- Krasovskii, N. N.  
The problem of convergence of controlled objects 5920  
Regularizing the problem of games encounter of motions 5948  
A games problem of correction of motion 9299
- Krasulina, T. P.  
Investigation of the asymptotic properties of potential functions method algorithms intended to determine the characteristics of a plant from observed values 1682  
Application of stochastic approximation algorithms to automatic control problems in the presence of strong interference 4180
- Kratochvil, J.  
Calculation of rectangular plates by the finite element method 6890  
The method of finite elements and its application to plane elastic problems: Part I, Analysis of the problem from the point of view of structural mechanics 9567
- Kratz, H.  
Remarks on the investigation of discharge of gases from tubes at high initial pressures if the flow is induced by the acceleration of a rigid body 2087
- Kratz, W.  
Investigations on the behavior of particle boards under long-term bending load 6222
- Krause, E.  
Normal injection in a three-dimensional laminar boundary layer 2903
- Krause, F. R.  
Determination of thermodynamic properties with optical cross-correlation methods 1287
- Krause, H. H.  
Radioactive sulfur oxide studies of external corrosion reactions on surfaces 3032
- Krause, L. N.  
Performance of a mass-flux probe in a Mach 3 stream 9751
- Krauss, E. S.  
Effects of shapes of conventional fuselages and of streamline bodies on drag at subsonic speeds 2154
- Krausz, A. S.  
A rate theory of strain relaxation 3385
- Kravchuk, L. B.  
See Kuriat, R. I. 8321
- Kravtchenko, J.  
See d'Hieres, G. C. 2163
- Kravtsov, G. I.  
See Lomize, G. M. 5302
- Krawczyk, R.  
On an iteration procedure for nonlinear systems of equations 8448
- Krechet, V. G.  
On a method of solving some problems of the dynamics of a rope part of which is wound on a circular cylinder 192
- Krechetov, L. I.  
See Ivanov, I. T. 5675
- Kregers, A. F.  
Plastic strains under combined loading in tension and torsion 881
- Krein, S. G.  
Asymptotic method for oscillations of a strongly viscous fluid 8933  
The problem of small motions of a body with a cavity partially filled with a viscous fluid 9738
- Kreindler, E.  
On the linear optimal servo problem 60  
Closed-loop sensitivity reduction of linear optimal control systems 63
- Kreko, B.  
Linear programming 20
- Krementulo, V. V.  
On the optimal stabilization of a body of revolution with fixed point by means of fly wheels 2558
- Krementulo, Y. V.  
See Voronova, L. I. 2514
- Kremer, H.  
Application of numerical methods to the spreading of free turbulent gas jets 7314
- Kremer, K. -J.  
See Heller, W. 7944
- Kremlevskii, P. P.  
Terminology and classification of instruments for measuring flows and quantities 3819
- Krendelev, L. A.  
Calculating stresses and strains in forming double-curvature shells 9388
- Krestovnikov, A. N.  
Method for measuring the thermal conductivity of liquid metals at high temperatures 2210
- Krestyaninova, N. S.  
See Ginzburg, I. P. 3728
- Kreuter, W.  
Extension of the computation methods in subsonic airfoil theory 479
- Kreutzinger, R.  
On the motion of the center of mass of a crank mechanism 1143
- Kreuzinger, H.  
See Grundmann, H. 1127
- Kreyenhagen, K. N.  
See Rosenblatt, M. 9491
- Kriegel, E.  
Resistance coefficients of falling liquid films 4543
- Krier, H.  
Entropy waves produced in oscillatory combustion of solid propellants 3911
- Krishak, N. L. V.  
See Chand, I. 7983
- Krishen, K.  
Analysis of acoustic wave scattering from a rough layer 7532
- Krishna, D. V.  
Unsteady stratified flow past a cylinder 3674  
Motion of an axisymmetric body in a rotating stratified fluid confined between two parallel planes 5470
- Krishna, G.  
See Murty, I. S. 5208
- Krishna Murthy, B. S.  
See Rao, N. V. R. L. N. 2737
- Krishnamurthy, N.  
See Katiyar, R. S. 218  
Haridasan, T. M. 2700
- Krishna Murthy, V. R.  
Turbulent flow of non-Newtonian suspensions in pipes 385
- Krishnamurty, V. V. G.  
Heat transfer in noncircular conduits: Part 5, Laminar forced convection in right isosceles triangular ducts 5660  
See also Someswara Rao, S. 7412
- Krishnan, R. S.  
See Katiyar, R. S. 218
- Krishnan, S.  
Minimum weight design of a multi-web box beam in pure bending 6024
- Krishnakutty, V. K.  
See Chenchanna, P. 9465
- Krishnappa, G.  
An experimental investigation of the composition of jet noise 3119
- Krishna Rao, P. S. R.  
See Raghupathi Rao, C. 9142
- Krivelevich, L. M.  
A nonlinear model of the flow of an inhomogeneous fluid at the equator 1542

- Krivoshein, L. E.  
See Mangeron, D. 1317
- Krivtsov, V. A.  
See Zinovev, R. K. 8673
- Krizek, R. J.  
See Khera, R. P.  
Baker, W. H. 4343  
7869
- Krogmann, U.  
Dynamic problems during self-alignment of an inertial-platform considering interaxes coupling 9288
- Krokosky, E. M.  
Ablative coatings for structural fire protection 693  
See also Smolenski, C. P. 8572
- Krol, V. M.  
Self-similar motions of a radiation-heated gas behind the absorption initiating shock wave front 5523
- Krolak, M.  
The stability of orthotropic conical shells under axial compressive load according to the nonlinear theory 9416
- Kroll, G. D.  
See Daniels, J. H. 8760
- Kroll, J.  
The spin-up of a homogeneous fluid bounded below by a permeable medium 7225
- Kroll, J. E.  
Heat transfer in an LTV falling film evaporator: A theoretical and experimental analysis 7444
- Kronauer, R. E.  
See Morrison, W. R. B. 7316
- Kronberger, H.  
Hydrostatic extrusion 7888
- Kronenberg, M.  
Grundzuge der Zerspanungslehre: Theorie und Praxis der Zerspanung fur Bau und Betrieb von Werkzeugmaschinen: Dritter Band, Mehrschneidige Zerspanung (Umfangsfraesen, Raumen), (Fundamentals of Metal cutting: Theory and practice of metal cutting for designers and users of machine tools: Vol. 3, Multiple cutter machining (Peripheral milling and broaching), (2nd revised edition) 7051
- Kronsjö, L. I.  
Slip-line field analysis of incipient plane strain extrusion through frictionless and perfectly rough wedge-shaped dies 270
- Kropschot, R. H.  
Technology of liquid helium 528
- Krot, Yu. E.  
See Bolshutkin, D. N. 4910
- Kroupa, F.  
Line sources of internal stresses with zero Burgers vector 1751
- Kruchow, R.  
Performance of a turboalternator gas-bearing system at steady-state conditions 4106  
See also Curreri, J. S. 9851
- Kruger, C. H.  
See Viegas, J. R. 9876
- Krulev, V. M.  
Surface roughness and rheological properties of adhesives as factors determining optimal thickness of glue line 379
- Krumme, W.  
Klingelberg-Spiralkegelrader: Berechnung, Herstellung und Einbau: dritte neubearbeitete Auflage (Klingelberg-spiral bevel gears: Calculation, manufacture and installation, 3rd revised edition) 7154
- Krupin, A. V.  
Research of the rolling process of metals in a vacuum 9518
- Krupin, V. D.  
A property of internal waves 8136
- Krupka, R. M.  
Bending-bending mode of a rotating tapered-twisted turbomachine blade including rotatory inertia and shear deformation 5224
- Krupkowski, A.  
The problem of torsion of cylindrical specimens of plastic metals 6009
- Kruszynski, M.  
See Kraj, W. 8345
- Krutov, V. I.  
Method for determining quickly the water content, the density of the solid particles, and the dry density of soils 6125
- Krutova, I. N.  
Stability of an adaptive system with model for harmonic input signals 2545
- Kruzhkov, S. N.  
A class of problems with an unknown boundary for the heat conduction equation 5649
- Kryder, M. H.  
A nanosecond Kerr magneto-optic camera 239
- Krylov, Yu. M.  
Investigation of the two-dimensional energy spectrum and of the wavelength of wind-induced waves 7577
- Kryzhanovskii, I. M.  
See Abramov, L. T. 9503
- Krzywoblocki, M. Z. v.  
Relation between classical and relativistic shock wave theories by means of shock tube tests 437  
Mathematical aspects of re-entry supersonics of blunt bodies 2094  
Some mathematical aspects of a turbulent incompressible wake behind an axially symmetric body: Part 2 7218
- Krzyzanowski, J.  
Analysis of water drop impact on blades of steam turbines and some results of eroded blade inspection 8248
- Ku, H. H.  
Precision measurement and calibration: Selected NBS papers on statistical concepts and procedures, NBS Special Publication 300, Vol. 1 7085
- Ku, P. M.  
Interdisciplinary approach to friction and wear 7586
- Ku, T. C.  
See Bayer, R. G. 6723
- Ku, Y. H.  
Stochastic stability in nonlinear oscillating systems 5927
- Kubaitis, Z. I.  
See Baltrushaitis, Yu. D. 375
- Kubarev, Yu. V.  
Low-frequency resonant electrostatic oscillations in a streaming non-isothermal plasma 6572
- Kubasov, V. N.  
See Bauze, V. R. E. 4854
- Kubota, K.  
A study on the stress-dilatancy relation of a sand sample 243
- Kubota, N.  
See Toyokura, T. 4675
- Kubota, S.  
Axial flow compressors for blast furnaces 8154
- Kubota, T.  
See Ko, D. R. S. 1230  
Witte, A. 1443  
Ru-Sue Ko, D. 6333  
Batt, R. G. 7238
- Kubovcik, R. J.  
See Klinzing, G. E. 5882
- Kuchanov, S. I.  
Energy dissipation in a turbulent gas containing suspended particles 1240  
See also Levich, V. G. 1239
- Kuczynski, W.  
Values of experimental parameters of plastification and cracking of reinforced concrete 1988
- Kudlai, A. S.  
See Polyakov, S. N. 8739
- Kudo, I.  
See Minami, Y. 293
- Kudryavtsev, B. A.  
See Parton, V. Z. 7706
- Kudryavtsev, I. V.  
Hardening large shafts by cold work-hardening 5440
- Kudryavtsev, P. I.  
Method for investigating the kinetics of the development of fatigue cracks 2758  
Change in normal stress at the apex of an annular fatigue crack 4408
- Kudryavstev, V. M.  
More exact formulas for limiting stresses and factors of safety 9532
- Kudryavtseva, Z. M.  
Study of the motion of powder-gas mixtures in pipes 6670
- Kuehn, D. M.  
See Monson, D. J. 5513
- Kuenzi, E. W.  
Buckling coefficients for simply supported, flat, rectangular sandwich panels under biaxial compression 8596

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Kuerti, G.  
See Ban, S. D. 3748
- Kuhlemeyer, R. L.  
See Lysmer, J. 1031
- Kuhn, D.  
Results of load measurements on trucks and cargo 214
- Kuhn, G. F.  
Nearfield pressure distributions for a rigid and a flexing piston in an infinite soft baffle 6626
- Kuhn, P.  
Residual tensile strength in the presence of through cracks or surface cracks 6189
- Kuiken, H. K.  
Large-amplitude low-frequency oscillation of a slender wedge in inviscid hypersonic flow 2880  
General series solution for free convection past a nonisothermal vertical flat plate 2981  
Free convection at low Prandtl numbers 2986
- Kuipers, M.  
See Alblas, J. B. 4534
- Kuklenko, N. P.  
Stationary transverse cylindrical vibrations of a plate on elastic half-space 3451
- Kuklyak, N. L.  
See Karpenko, G. V. 6225
- Kukushkin, N. A.  
The vibratory loading of roller bearings 7831
- Kulbakh, A. A.  
Apparatus for testing small specimens in torsion 7090
- Kulchitskii, G. B.  
Errors in determining soil deformation modulus 5288
- Kulczyk, W. K.  
See Davis, Q. V. 4298
- Kuligowski, A.  
Thermal effects in stress and strain states in a pipeline resting on elastic foundation 9945
- Kulikov, V. A.  
See Muratov, L. V. 1964
- Kulikovskii, A. G.  
Surfaces of discontinuity separating two perfect media of different properties: Recombination waves in magnetohydrodynamics 9859  
See also Barmin, A. A. 7478
- Kulisch, U.  
See Apostolatos, N. 5911
- Kulkarni, K. M.  
A study of barreling as an example of free deformation in plastic working 9516
- Kulkarni, M. M.  
See Foster, K. 1167
- Kulkarni, S. K.  
See Katti, R. K. 8685
- Kulkarni, S. V.  
See Sastry, D. S. 4428  
Khadilkar, B. S. 6146
- Kulko, I. P.  
See Zagorskii, T. Ya. 4032
- Kuloor, N. R.  
See Kalanasundaram, C. V. 2264  
Das, T. R. 5635  
Seshadri, D. N. 6475  
Kumar, R. S. 8979
- Kumada, T.  
See Kobayasi, K. 2992
- Kumai, T.  
Influence of the virtual inertia of vibrating bottom panel on the hull natural frequencies 7825
- Kumakura, S.  
The Bauschinger effect in aluminum alloys: Part I 900
- Kumar, A.  
Viscous drag on dislocations at high strain rates in copper 6020
- Kumar, K.  
The Chapman-Enskog solution of the Boltzmann equation: A reformulation in terms of irreducible tensors and matrices 7383
- Kumar, K. S. P.  
See Teng, L. 71
- Kumar, R.  
Investigations into the movement of surface rocks due to underground opening 4373  
Axially symmetric vibrations of a fluid-filled spherical shell 5609  
See also Kalanasundaram, C. V. 2264
- Kumar, R. S.  
Studies on reaction rates: Part I, Theoretical derivation of rate expressions for homogeneous gaseous reactions 8979
- Kumar, V.  
Theoretical pressure distribution in self-acting hydrodynamic journal bearings without end flow considering turbulence 4971
- Kumaraswamy, S.  
See Srinivasan, S. K. 8875
- Kumazawa, M.  
The elastic constant of polycrystalline rocks and nonelastic behavior inherent to them 6163
- Kumbasar, N.  
See Lynn, P. P. 999
- Kumble, R. G.  
See Kumar, A. 6020
- Kumpikas, A. L.  
Regions at which a synchronous gyration of a pendulum with a vibrating suspension point starts 3345
- Kumskov, V. T.  
Concerning calculation of combined heat transfer at the entrance section of tubes 5641
- Kunert, K.  
The plane with circular-arc or kidney-shaped openings stretched in arbitrary direction 1704
- Kunin, I. A.  
Internal stresses in media with micro-structure 110  
See also Vdovin, V. E. 5091
- Kunitomo, T.  
See Sato, T. 5705
- Kunnel, M.  
A method for measuring low speeds 3335
- Kuntsevich, V. M.  
Investigating the stability of a multivariable control system with pulse-frequency modulation using the direct Lyapunov method 9285
- Kunugi, M.  
Kinetics of soot formation in a flow system simulating the lower part of a laminar diffusion flame 3025
- Kunz, H. R.  
An analysis of film condensation, film evaporation, and single-phase heat transfer for liquid Prandtl numbers from  $10^{-3}$  to  $10^4$  3884
- Kunzner, H.  
Properties of some related nonconventional two-axis rate gyros 6798
- Kuo, C.-T.  
See Hsu, C. S. 2711
- Kuo, E. Y. T.  
Acoustic field produced by an arbitrary body in good vibration: Part I, Theory and three-dimensional synthesis 4864
- Kuo, J. T.  
Static response of a multilayered medium under inclined surface loads 8532
- Kupfer, H.  
Behavior of concrete under biaxial stresses 5364
- Kupradze, W. D.  
Numerical processes in the theory of the potential and the theory of elasticity 8506
- Kural, O.  
Investigation of feedback controlled diffusion systems using a high-speed continuous electrical analog 34
- Kurasawa, T.  
Nonlinear kinetics of plasma: Part 3, Four-wave interactions 3082
- Kurbanova, R. B.  
See Rzaev, P. F. 2979
- Kurganov, A. M.  
Calculation of fluid flow in an intertube space in heat exchangers and in other apparatus 397
- Kuriat, R. I.  
Thermal stresses in the nozzle blades of gas turbines 8321
- Kurihara, Y.  
Thermal stresses in a circular cylinder with a ring of heat sources 6652
- Kuriko, V. I.  
Nonlinear theory of Cherenkov excitation of a plasma by a modulated charged-particle beam 6566
- Kurita, H.  
See Kato, S. 1852
- Kuriwaki, Y.  
See Mizushima, T. 6496
- Kurland, G. S.  
See Charm, S. E. 3250

- Kurn, A. G.  
See Raney, D. J.  
Smith, J. H. B. 8130  
8923
- Kurobe, T.  
See Wakashima, H. 1952
- Kuroiwa, S.  
Use of condenser pick-up in some  
rheometers 2046
- Kurokawa, K. M.  
See Chapman, M. W. 10024
- Kurpen, J. J.  
Externally regenerated condensate  
demineralization systems for once-  
through steam generators 9021
- Kurshin, L. M.  
Elastoplastic problem for a sheet  
weakened by a doubly periodic  
system of circular holes 2574
- Kurshina, L. M.  
See Aleksandrova, A. Ya. 938
- Kurten, L. I.  
See Markovets, M. P. 9562
- Kurzals, P. R.  
An approximate solution of the  
equations of motion for arbitrary  
rotating spacecraft 5773
- Kurzhanskii, A. B.  
The problem of control with bound-  
ed phase coordinates 5951
- Kurzin, V. B.  
Dynamic stability of lattice blades  
with slight mismatch of natural  
frequencies 8286
- Kurzweg, U. H.  
A criterion for the stability of  
heterogeneous swirling flows 464
- Kushner, H. J.  
Numerical methods for the solution  
of the degenerate nonlinear elliptic  
equations arising in optimal  
stochastic control theory 4197
- Kushul, M. Ia.  
Motion of a gyroscope with a flex-  
ible axis acted on by gravity and  
elastic constraints for small angles  
of nutation: The stability of its  
vertical rotation 830
- Kushul, M. Ya.  
See Zeitman, M. F. 6949
- Kusubov, A. S.  
Measurement of elastic and plastic  
unloading wave profiles in 2024-T4  
aluminum alloy 2733
- Kusui, T.  
Liquid jet flow into still gas: Jet  
flow from circular rough tube 4572
- Kusakawa, K.-i.  
On the magnetohydrodynamical  
aligned flow of a compressible  
fluid past a slender body placed in  
a circular wind tunnel 9882
- Kutateladze, S. S.  
Application of an electro-chemical  
method for the measurement of  
shear stress in two-phase flow 1288
- Kuteinikova, Z. A.  
See Fuks, G. I. 3227
- Kutsar, A. R.  
Dilatometer for investigation of  
solids at high hydrostatic pressures 1105
- Kutser, M. E.  
Method of analyzing frontal dis-  
continuities excited by a pressure  
wave in membranes and shells 8652
- Kuttler, J. R.  
Lower bounds for sloshing frequen-  
cies 7346
- Kuttruff, H.  
Measurements of the pressure con-  
tours in pressure pulses generated  
by cavitation 4551
- Kutukov, G. P.  
See Kotelnikov, Yu. N. 1449
- Kuwabara, S.  
Electrohydrodynamic Rayleigh and  
oscillating plate-problems 8262
- Kuzay, T. M.  
See Sparrow, E. M. 2248
- Kuzema, Yu. A.  
Procedure for investigating hot  
strength under impulse heating  
conditions 4907  
See also Kovpak, V. I. 287
- Kuzmak, G. E.  
Effect of finite extent of the pow-  
ered phases in the problem of  
optimum transfers between nearby  
near-circular noncoplanar orbits  
Approximate formulation of optimal  
flights in the close vicinity of a  
circular orbit 3102
- Kuzmenko, A. G.  
See Dianov, D. B. 8615
- Kuzmin, Iu. N.  
Outer Dirichlet problem for a semi-  
infinite cylinder 6760
- Kuzmin, V. V.  
See Eryukhin, A. V. 4682
- Kuzmin, Yu. N.  
Elastic equilibrium of a space con-  
taining periodically distributed  
circular slits 5993
- Kuznetsov, A. L.  
The operation of a split shaft gas  
turbine plant with deviations in  
the characteristics of its com-  
ponents 9849
- Kuznetsov, E. N.  
Reciprocal relations for the dif-  
ferential operators of the theory  
of elasticity 106
- Kuznetsov, F. O.  
See Lebedev, N. N. 1293
- Kuznetsov, G. B.  
See Golovanov, V. P. 185
- Kuznetsov, G. I.  
Solution of some optimal problems 7684
- Kuznetsov, G. M.  
Measurement of the concentration  
of a suspension by ultrasonic  
means 3176
- Kuznetsov, G. N.  
See Ilichev, V. I. 1168
- Kuznetsov, I. L.  
See Mironov, B. P. 9691
- Kuznetsov, N. M.  
Application of the thermodynamic  
similarity theory to the general-  
ization of experimental data on  
heat transfer of boiling organic  
heat-transfer agents 2267  
Isentropic expansion of the detona-  
tion products of RDX 9922
- Kuznetsov, P. I.  
Fault detection problem 4202
- Kuznetsov, R. F.  
Measurement of gas velocity in  
fluidized bed using pitot tubes 4915
- Kuznetsov, Yu. D.  
See Esin, V. I. 9734
- Kuznetsov, Yu. K.  
See Dushin, L. A. 1439
- Kvartskhava, I. F.  
Plasma properties in a combined  
high-current discharge 4814
- Kwakernaak, H.  
Optimal low-sensitivity linear feed-  
back systems 5034
- Kwapisz, M.  
Remarks on a certain algorithm for  
solving of ordinary differential  
equations 764
- Kwasniewski, M.  
See Brodka, J. 6259
- Kwaspen, J. J. M.  
See Frankort, F. J. M. 7485
- Kwaszczynska, K.  
Analysis of compression of short  
cylinder of Coulomb material  
See also Mroz, Z. 2600  
249
- Kwei, T. K.  
See Wang, T. T. 6661
- Kwoh, H.  
See Soliman, J. I. 9278
- Kydoniefs, A. D.  
Finite axisymmetric deformations  
of an initially cylindrical elastic  
membrane enclosing a rigid body  
Finite axisymmetric deformations  
of an initially cylindrical elastic  
membrane 3415
- Laats, M. K.  
Experimental study of the dynamics  
of an air-dust jet 1517
- Labrujere, T. E.  
Computer application of a linearized  
supersonic lifting surface theory  
of a certain class of wings 8924  
See also Garner, H. C. 1250
- La Budde, C. D.  
On the computation of a generalized  
inverse of a matrix 4136
- Labuntsov, D. A.  
Vapor concentration of a two-phase  
adiabatic flow in vertical ducts 1526
- Labuschagne, T. J.  
Some aspects of the interaction  
between railway vehicle and track 8620

- Labutin, Yu. P.**  
Mechanization of measurement and calculation in determining axial residual stresses by the Davidenkov method 1107
- Lacinski, T. M.**  
See Leng, J. 9841
- Laczkowski, R.**  
Natural torsional-flexural vibration of bars with a single symmetry plane 6082
- Ladegaard-Pedersen, A.**  
See Persson, P. A. 1904
- Ladnova, L. A.**  
Nonequilibrium laminar heat transfer with a flow of dissociated gas. 2904
- Laframboise, J. G.**  
Optimum discrete approximation of the Maxwell distribution 449
- Laganelli, A. L.**  
Surface ablation patterns: A phenomenology study 6511
- Lagerquist, D. R.**  
Design using symbolic topological equations 1974
- Lago, G. V.**  
See Bower, E. K. 2489
- Lagutin, L. P.**  
Measurement of the hardness of polymer materials 5369
- Lagzdynsh, A. Zh.**  
Higher-order elasticity tensors 866
- Lahiri, B. K.**  
See Ganguli, P. L. 6769
- Lai, J. S. Y.**  
Prediction of uniaxial stress relaxation from creep of nonlinear viscoelastic material 3368  
Stress relaxation of nonlinear viscoelastic material under uniaxial strain 6857
- Lai, P.**  
See Leray, J. 3284
- Lai, R. Y. S.**  
See Mockros, L. F. 5497
- Laikhtman, D. L.**  
See Vager, B. G. 2137
- Laing, L. M.**  
See Rushton, K. R. 8969
- Lajtai, E. Z.**  
Strength of discontinuous rocks in direct shear 1064  
Shear strength of weakness planes in rock 6157
- Lakshmana Gowda, B. H.**  
See Chandrasekhara Swamy, N. V. 399
- Lakshmana Rao, N. S.**  
Limit slope in uniform flow computations 7172  
See also Syamala Rao, B. C. 3667
- Lakshmana Rao, S. K.**  
See Sambasiva Rao, N. V. 8859
- Lakshmikantham, C.**  
Minimum weight design of stiffened cylinders 8593
- Lakshmikanthan, V.**  
Almost periodic systems and differential inequalities 4990  
See also Deo, S. G. 7628
- Lal, K.**  
Similarity solutions for the power law fluids flow behind a flat plate 422  
Unsteady free-convection laminar flow past a porous wall with time-dependent suction 1233  
Theoretical consideration of temperature distribution in a channel bounded by two coaxial circles 4565  
Similar solution using group transforms 4619
- Lala, G. G.**  
See McTaggart-Cowan, J. D. 9187
- Lam, S. H.**  
Collisionless flow of a plasma mixture 4817
- Lamar, J. E.**  
Design charts of static and rotary stability derivatives for cropped double-delta wings in subsonic compressible flow 5593
- Lamar, W. E.**  
Military aircraft: Technology for the next generation: Part 2, Emerging technologies 2155
- Lamashevskii, V. P.**  
See Lebedev, A. A. 698
- Lamb, J.**  
See Barlow, A. J. 1154  
Barlow, A. J. 2835
- Lamb, J. P.**  
Improved linearized velocity profiles for turbulent free shear layers 9696  
See also Gaddis, J. L. 5544
- Lamb, M.**  
See Morris, O. A. 6631
- Lambe, T. W.**  
Reclaimed land in Kawasaki City, Japan 7028
- Lamberson, D. L.**  
See Asay, J. R. 663  
Asay, J. R. 4024
- Lambert, B.**  
Determination of the unsteady pressure field of a freely moving propeller 510
- Lambert, E. R.**  
A new upper-bound method for analysis of some steady-state plastic deformation processes 6168
- Lambert, P.**  
See Geneste, L. 4626
- Lamble, J. H.**  
The sandwich technique in photoelasticity 7920  
See also El-Behery, A. M. 7887
- Lamborn, B. N. A.**  
An expression for the Dirac delta function: Part 1 7635
- Lammers, U. H. W.**  
Electrostatic analysis of raindrop distributions 1551
- Lancaster, E. R.**  
A unified form of Lambert's theorem 627
- Lancaster, J. E.**  
Nonplanar Moon-to-Earth trajectories 4002  
Rapid analysis of Moon-to-Earth trajectories 4843  
See also Kevorkian, J. 8291
- Lancaster, P. R.**  
The mechanics of materials 1697  
See also Al-Sikafi, Q. H. 2772
- Lance, R. H.**  
See Soechting, J. F. 882  
Gajewski, R. R. 8786
- Lanczak, W.**  
New type of vibroabsorbers for machine foundations 6979
- Land, N. S.**  
A feasibility study of a technique for sorting particles by shape 5838
- Landa, P. S.**  
Modelling of bending-torsion oscillations of wings in the air stream 5757
- Landau, I. D.**  
A hyperstability criterion for model reference adaptive control systems 8468
- Landers, T.**  
Effects of thin soft layers on body waves 6694
- Landes, J. D.**  
See Wei, R. P. 1936  
Wei, R. P. 5338
- Landesman, E. M.**  
Nonlinear perturbations of linear elliptic boundary-value problems at resonance 5895
- Landgraf, G.**  
Yield conditions in terms of stress resultants of plates and shells 130  
Considerations in stress concentration theory at notches 853
- Landis, F.**  
See Backshall, R. G. 5545
- Landisman, M.**  
See Mitchell, B. J. 1535  
Bloch, S. 3188
- Landram, C. S.**  
Heat transfer in turbulent pipe flow with optically thin radiation 2249
- Landsberg, P. T.**  
The Lorentz transformation of heat and work 9766
- Landshoff, R. K. M.**  
Thermal radiation phenomena: Vol. 1, Radiative properties of air; Vol. 2, Excitation and nonequilibrium phenomena in air 2244
- Landsmeer, J. M. F.**  
See Thomas, D. H. 754
- Landweber, L.**  
Added masses of two-dimensional forms by conformal mapping 6091
- Lane, R. G. T.**  
Trends in the design and construction of dams 8781
- Lang, H.**  
On the theoretical treatment of diffusion in rarefied gases 7267

- Lange, E. A.  
See Crooker, T. W. 294  
Crooker, T. W. 4419  
Nash, G. E. 4450
- Langejan, J. J. D.  
See Mandersloot, W. G. B. 6450
- Langer, G.  
The Langer acoustic particle counter 7543
- Langford, D.  
Centrifuge analysis: Effects on sedimentation coefficients of angular velocity lag, of deviations from Stokes' law of drag, and of acceleration effects 1515
- Langhaar, H. L.  
Two numerical methods that converge to the method of least squares 4999
- Langhans, R. A.  
See Hinson, W. F. 3773
- Lankin, P. A.  
See Zaitsev, G. Z. 4409
- Lankin, Yu. N.  
See Gogotsi, G. A. 697  
Antonenko, V. M. 4037
- Lanshin, A. V.  
Statistically steady trajectories in second-order automatic control variable-structure systems 3322
- Lantz, R. B.  
Boron epoxy laminate test methods 5359
- La Palm, J. R.  
See Cesari, L. 8477
- Lapidus, L.  
See Gurel, O. 4166  
Flynn, J. V., Jr. 5038  
Berger, A. J. 5933
- Lapin, A. D.  
Applicability of the Kirchhoff principle for calculation of the sound scattering by an uneven surface of a solid 5797  
Propagation of surface waves over curved surfaces 8647  
Sound scattering in an irregular waveguide at the normal mode critical frequencies 9930
- La Place, M.  
Traite de mecanique celeste: Tome cinquieme (Celestial mechanics: Vol. 5) 4839
- Lappo, S. S.  
The dynamic effect of atmospheric pressure perturbation on sea currents 4066
- Lapshov, V. N.  
The extent to which the material of a high temperature gas turbine flow section affects the efficiency of a combined steam-gas turbine plant 582
- Laqueuille, C. R. J.  
Vertically fired industrial steam boilers: Influence of the furnace geometry 9038
- Larcombe, M. J.  
Estimation of surface pressures from observed shock-wave envelopes surrounding conical bodies at  $M = 4.0$  6343
- Lardner, R. W.  
Dislocation dynamics and the theory of the plasticity of single crystals 5121  
Plastic yield on inclined slip planes at the tip of a crack deformed in antiplane strain 6188
- Lardner, T. J.  
On the stress distribution in a shallow cone 2633  
Vibration of beams with exponentially varying properties 5220  
Symmetric deformations of circular cylindrical elastic shells of varying thickness 6905
- Laredo, M.  
General theory of stiffening of large three-dimensional structures: Application of large computers 4498
- Laricheva, V. V.  
Optimal transfer flights from elliptic to parabolic orbits 72  
Analytical method for the determination of the separatrix analog in the motion of a body about a center of mass in the atmosphere 5972
- Larin, R. M.  
The problem of optimization in the case of a nonuniform restriction placed on the control 69
- Larin, V. B.  
Problem of analytic construction of regulators 1667  
Shock absorption for instruments mounted on moving objects 7838
- Larina, I. N.  
Field of density around a cone in a free molecular flow 7278
- Larina, T. B.  
Creep of metals 118
- Larionescu, D.  
See Bogdan, R. C. 8803  
Bogdan, R. C. 9614
- Larionov, M. M.  
Spectra of turbulent fluctuations of plasma parameters in a high-current toroidal discharge 7480
- Larionov, V. V.  
Evaluation of stress concentration in cyclic loading 8722
- Larkin, Yu. I.  
Solution of the problem on the interaction of a longitudinally-loaded rib of finite length with an elastic half-plane and an elastic plane 9329
- Larock, B. E.  
Jets from two-dimensional symmetric nozzles of arbitrary shape 1172  
Gravity-affected flow from planar sluice gates 3675  
On inviscid axisymmetric flow into a semi-infinite cylinder 4558  
A theory for free outflow beneath radial gates 9632
- Larras, J.  
Wavelengths of antidunes for a given water depth 1268  
Calculation of nonpermanent flow with free surface, over a horizontal bottom 2055
- Larsen, P. A.  
Head losses caused by an ice cover on open channels 2841
- Larsen, P. S.  
Void fractions in subcooled flow boiling 9014  
See also Arpaci, V. S. 1347
- Larsen-Badse, J.  
Influence of grit diameter and specimen size on wear during sliding abrasion 4097
- Larson, C. L.  
See Machmeier, R. E. 3202
- Larson, H. K.  
See Mateer, G. G. 2131
- Larson, M. B.  
Variables affecting the dynamic response of thermocouples attached to thin-skinned models 533
- Larson, R. E.  
Optimum adaptive control in an unknown environment 2544
- Laschka, B.  
Unsteady aerodynamic forces on coplanar lifting surfaces in subsonic flow: Wing-horizontal tail interference 8922
- Laslo, A.  
Data for a unified theory of transport processes 3843
- Lass, H.  
Comparison of the Newtonian and general relativistic orbits of a point mass in an inverse-square law force field 3983
- Laszlo, D.  
Examination of volumetric water-flow rate metering with air bubbles 8165
- Latimer, K. E.  
Measurements of pressure-wave transmission in liquid-filled tubes used for intravascular blood-pressure recordings 7605
- Latimer, R. D.  
See Latimer, K. E. 7605
- Latko, R. J.  
Transient energy transfer in a radiating gas during shock expansion 4589
- Latta, G. E.  
On the autocorrelation functions of wind generated ocean waves 6701
- Latyshev, V. M.  
See Derevyanko, N. F. 4685
- Lau, Y. L.  
A note on diffusion from a line source in a turbulent boundary layer 2896
- Laubli, F.  
Dynamic behavior of automatic feed control on monotube boilers with superimposed water recirculation 5939
- Laufer, J.  
Turbulent shear flows of variable density 2911

- Laufer, T.**  
Take-off and landing maneuvers of  
heligeros 7330
- Lauffer, W. D.**  
See Blejwas, T. E. 1948
- Lauga, H.**  
Penstock steel liner—design against  
external pressure 6071
- Laumbach, D. D.**  
A point explosion in a cold ex-  
ponential atmosphere 3117
- Lauder, B. E.**  
An aspect of heat transfer in ac-  
celerating turbulent boundary  
layers 2893  
Sink flow turbulent boundary  
layers 4607  
The Prandtl-Kolmogorov model  
of turbulence with the inclusion  
of second-order terms 7313
- Laura, P. A.**  
See Goeller, J. E. 1826
- Laurenson, E. M.**  
Data error effects in unit hydro-  
graph derivation 9172
- Lauterbach, G. F.**  
See Krahula, J. L. 5074
- Lauterborn, W.**  
Photographic records of the tearing  
of a rotating water column and  
measurements of tensile strength  
in water by the centrifuge method:  
Apparatus and first results 9634
- Laval, P.**  
Construction of a scheme with ex-  
plicit and concise differences of  
second order for the calculation  
of a plane and rotational compres-  
sible flow 1201
- Lavan, Z.**  
Separation and flow reversal in  
swirling flows in circular ducts 8864  
See also Ghia, K. N. 4571  
Rochino, A. 6402  
Mehta, U. B. 8851
- Lavergne, M.**  
Emission by underwater explosions 9968  
See also Dubesset, M. 4887
- Lavingia, K. P.**  
Deformation analysis of structures  
near collapse load 6247
- Lavoie, F. J.**  
Nondestructive testing 4457
- Lavrentev, I. V.**  
Limiting values of the voltage of a  
dc MHD generator 9884  
See Vasilev, V. F. 9885
- Lavrovskii, E. K.**  
Determination of the parameters  
of rotation and orientation of a  
satellite from the results of quali-  
tative analysis 2350
- Lawn, C. J.**  
Turbulent heat transfer at low  
Reynolds number 4609
- Lawrence, A. J.**  
Comparison of different methods  
of assessing the free oscillatory  
characteristics of aeroelastic  
systems 5756
- Lawrence, B. D.**  
Variable frequency gas shielded  
pulsed current arc welding 2035
- Lawrence, E. G.**  
Rigid inclusions in an elastic plate 9334
- Lawrence, L. R., Jr.**  
See Edse, R. 7461
- Lawrie, J. A.**  
Hydromagnetic waves and the  
lower ionosphere 2303
- Laws, N.**  
See Green, A. E. 145  
Hayes, M. 7546
- Lawson, K. S.**  
The influence of the engine on air-  
craft design: A review of the in-  
fluence of advanced technology  
turbofan engines on the design of  
civil transport aircraft 3770
- Lawton, C. W.**  
Design and stress evaluation of a  
nonsymmetric pressure vessel 7982
- Lax, P. D.**  
Nonlinear partial differential equa-  
tions and computing 3303  
Integrals of nonlinear equations of  
evolution and solitary waves 4992  
Decaying modes for the wave equa-  
tion in the exterior of an obstacle 6756
- Laykhtman, D. L.**  
See Vager, B. G. 7571
- Layranges, P.**  
Computing the single annular arch  
under standard static load: Ap-  
proximate calculation of cylind-  
rical shells under various condi-  
tions of support; Application to  
the structural design of lock cham-  
bers and gates 3405
- Layton, R. G.**  
Nucleation of ice on silver iodide 2424
- Lazard, A.**  
Experimental determination of the  
buckling load and degree of fixity  
of a structural steel member 961
- Lazaryan, V. A.**  
Investigation of forced oscillations  
of a small railroad car (or van) with  
vibrational loadings 8622
- Lazebnik, G. E.**  
Vertical and horizontal stresses in  
noncohesive soil 6142
- Lazer, A. C.**  
On a nonlinear two-point boundary  
value problem 2462  
See Landesman, E. M. 5895
- Lazutkin, D. F.**  
Thermoelastic strains of an aniso-  
tropic medium and Betti's theorem  
of mutual action 9146
- Lazzarino, L.**  
Present status of flight and space  
mechanics 4851
- Lea, G. K.**  
Dispersion relations of a dissoci-  
ated, radiating gas 4743
- Leach, D. E.**  
See Lazer, A. C. 2462
- Leadbetter, S. A.**  
Application of analysis and models  
to structural dynamic problems  
related to the Apollo-Saturn V  
launch vehicle 6966
- Leaf, C. F.**  
Sediment yields from central  
Colorado snow zone 9971
- Leal, L. G.**  
The effect of base bleed on the  
steady separated flow past bluff  
objects 4616
- Lean, D.**  
A discussion of some jet-lift V/STOL  
aircraft characteristics and their  
likely effect on operational ap-  
plications 9100
- Lebedev, A. A.**  
Geometrical interpretation of the  
generalized criterion of long-term  
strength 139  
Method of testing materials in the  
case of a two-dimensional stressed  
state at low temperatures 698
- Lebedev, I. V.**  
On the technique of wire tensometry  
at elevated temperatures 696
- Lebedev, N. N.**  
Recording of the velocity of high-  
intensity shock waves with piezo-  
electric transducers 1293  
Expansion of an arbitrary function  
into an integral in terms of as-  
sociated spherical functions 3296
- LeBlanc, J. L.**  
A mathematical model of a gas  
kick 9162
- Lebon, G.**  
On a variational description of  
magnetohydrodynamic systems  
including irreversible processes 4790
- Le Bot, Y.**  
See Sovrano, R. 4671
- Leckie, F. A.**  
Shakedown as a guide to the design  
of pressure vessels 3615  
Shakedown loads for radial nozzles  
in spherical pressure vessel 5413  
See also Gill, S. S. 8787
- LeCroy, R. C.**  
The solution of temperature develop-  
ment in the entrance region of an  
MHD channel by the B. G. Galerkin  
method 2300
- Ledyae, V. V.**  
The area of chip contact with a circu-  
lar tool 8700
- Lee, B. H. K.**  
A modified shock-layer theory for  
hypersonic internal flows 4585  
The production of strong shocks in  
a multi-stage gaseous detonation  
driven shock tube 6458  
See also Knystautas, R. 4007
- Lee, C. S.**  
Calculation of the thermodynamic  
and transport properties of sodium,  
potassium, rubidium and cesium  
vapors to 3000°K 8978

- Lee, D. I.  
See Lee, C. S. 8978
- Lee, E. H.  
See Huang, N. C. 1732  
Ting, T. C. T. 4331
- Lee, E. S.  
Iterative techniques in optimization:  
Part 1, Dynamic programming and  
quasilinearization 6803  
Gradient technique and Lagrange  
multiplier: A technique for op-  
timizing complex processes 7682
- Lee, F. F. M.  
Self stresses and line tensions in  
dislocation loops 6871  
Dislocation velocities in LiF based  
on the annealing kinetics of dis-  
location dipoles 9360
- Lee, G. C.  
See Szabo, B. A. 1761
- Lee, H. C.  
Stresses in largely deflected canti-  
lever beams subjected to gravity 1103  
See also Durelli, A. J. 939  
Durelli, A. J. 3561
- Lee, H. H.  
Effect of nickel in Cr-Ni stainless  
steels on the critical potential for  
stress corrosion cracking 5342
- Lee, H.-P.  
Generalized stiffness matrix of a  
curved-beam element 7747
- Lee, I. K.  
An analysis of flexible strips on a  
linear elastic foundation 6896  
Structure and foundation inter-  
action theory 8675
- Lee, J. H.  
Collapsing shock waves in a deto-  
nating gas 6621  
Effect of surface coatings and ex-  
posure on slip 8812  
Current views on gaseous detona-  
tion 9837  
See also Bach, G. G. 1206
- Lee, J. H. S.  
See Knystautas, R. 4007  
Bach, G. G. 9663
- Lee, J. S.  
Stokes flow around a circular cylin-  
dric post confined between two  
parallel plates 2076  
Slow viscous flow in a lung alveoli  
model 2451  
The influence of variable thermal  
conductivity and variable electrical  
resistivity on thermoelectric gener-  
ator performance 4704  
Transport properties at high temper-  
atures of CO<sub>2</sub>-N<sub>2</sub>-O<sub>2</sub>-Ar gas mix-  
tures for planetary entry applica-  
tions 9776
- Lee, K.  
The evaporation of water droplets  
in superheated steam 566
- Lee, K. L.  
Undrained strength of anisotropically  
consolidated sand 9496
- Lee, L. L.  
A simple formula for the shock  
polar 3715
- Lee, L. S.-S.  
See Martin, J. B. 1047
- Lee, P. C. Y.  
Shear-flexure-twist vibrations in  
rectangular AT-cut quartz plates  
with partial electrodes 4313  
Vibrations of contoured and parti-  
tially plated, contoured, rectangu-  
lar AT-cut quartz plates 9442
- Lee, R. E.  
Velocity profile, skin friction bal-  
ance and heat transfer measure-  
ments of the turbulent boundary  
layer at Mach 5 455
- Lee, R.-L.  
Buckling of a stiffened cylindrical  
shell with transverse shear load 1814  
General instability of inclined-  
stiffened cylinders under bending 4282
- Lee, R. S.  
On the outer-edge problem of a  
hypersonic boundary layer 2127  
See also Suh, N. P. 7733
- Lee, S. C.  
See Wu, J. M. 2315
- Lee, S.-L.  
Large deflections and stability of  
elastic frames 5196  
See also Mousa, A. M. 1777  
Dussan, E. B. V. 2400  
Carney, J. F., III 2946  
Parmelee, R. A. 3624  
Lin, K. H. 5191  
Gould, P. L. 6898
- Lee, T. S.  
Hydromagnetic interplanetary shock  
waves 4795
- Lee, Y.  
Pool boiling heat transfer with mer-  
cury and mercury containing dis-  
solved sodium 558
- Leelavathi, K.  
Pressure distribution in inviscid  
transonic flow past axisymmetric  
bodies ( $M_\infty = 1$ ) 8057
- Leeman, E. R.  
The "doorstopper" and triaxial  
rock stress measuring instruments  
developed by the C.S.I.R. 1066
- Lees, L.  
Surface mass injection at supersonic  
and hypersonic speeds as a problem  
in turbulent mixing: Part 1, Two-  
dimensional flow 1390  
See also Witte, A. 1443  
Ru-Sue Ko, D. 6333  
Klineberg, J. M. 8059
- Lefevre, C.  
Energy stability criteria 2507
- Leffert, C. B.  
See Rees, D. B. 9078
- Legat, A.  
See Frackiewicz, H. 1973
- Legendre, R.  
Flow of a compressible fluid  
through a cascade of turbine  
buckets 3795  
Fluid mechanics problems in heat  
exchangers 6506
- Legge, N. R.  
See Holden, G. 1733
- Legkii, I. N.  
Graphite shaft-seals at different  
speeds and temperatures 7999
- Legostaev, V. P.  
See Beresnev, N. P. 58
- Le Gourieres, D.  
Semi-artesian water table of soft  
water in suspension on sea water:  
Depth to be given to wells to ob-  
tain the maximum discharge in  
determined safety conditions 3203
- Legrand C.  
Variations of the limit value and  
the stress in shearing of a mixture  
of sand or cement and water, as a  
function of the proportions and  
the granulometry of the solid par-  
ticles 247
- Legvold, S.  
See Richards, D. B. 2206
- Lehane, J. A.  
See Cross, R. C. 4800  
Cross, R. C. 9063
- Lehman, M. L.  
A stress analysis in spring cantilever  
bridges 6279
- Lehmann, G. M.  
See Osborn, J. R. 1400
- Leibfried, G.  
See Dederichs, P. H. 8529
- Leibovich, S.  
Evolution of nonlinear waves in  
rotating fluids 3776
- Leibowitz, M. A.  
Systems containing random param-  
eters with small correlation times 8471
- Leichkis, D. L.  
Raising the metastable boundary by  
vibration of metal melts 9012
- Leichter, H. L.  
Fatigue behavior of a high-density  
graphite and general design cor-  
relations 7065
- Leidenfrost, W.  
See Ansari, J. 5941
- Leiding, F. Q. P.  
Note on a volumetric technique for  
the determination of stress in  
rock 8696
- Leigh, D. C.  
Nonlinear continuum mechanics:  
An introduction to the continuum  
physics and mathematical theory  
of the nonlinear mechanical be-  
havior of materials 383  
Asymptotic constitutive approxima-  
tions for rapid deformations of  
viscoelastic materials 5093
- Leikin, A. S.  
Napryzhenost i vynoslivost  
detalei slozhnoi konfiguratsii  
(Stress intensity and endurance  
of components of complex con-  
figuration) 99
- Leimbach, K.-R.  
Free vibration of two-dimensional  
frameworks 9456

- Leininger, J. R.  
See Nachlinger, R. R. 4250
- Leipholz, H.  
On the convergence of Grammel's method and its extension 1618  
On the freeing of the coordinate functions in the Ritz and Galerkin methods from boundary requirements 1624  
Festigkeitslehre für den Konstrukteur (Strength of materials for the designer) 7694
- Leipunskii, O. I.  
See Marshakov, V. N. 8236
- Leissa, A. W.  
A comparison of approximate methods for the solution of plate bending problems 3395  
See also Whitney, J. M. 165  
Whitney, J. M. 6931
- Leistner, G.  
Heat transfer in a large tube with pulsating and nonpulsating combustion 6509
- Leisure, R. G.  
A continuous wave technique for the automatic measurement of ultrasonic velocity changes 2383
- Leitner, F.  
See Kratochvil, J. 9567
- Leitsina, V. G.  
Sublimation of a thin plate in a gas stream 2126
- Lekhnitskii, S. G.  
Stress distribution close to a horizontal working of elliptical cross section in a transversely isotropic mass with inclined planes of isotropy 7878
- Leko, T.  
Does the center of flexure depend on Poisson's ratio? 4228  
On the membrane analogy for flexure of prismatical beams with longitudinal cavities 8548
- Lele, M. M.  
See Bryson, A. E., Jr. 634
- Leloup, C.  
Interaction between plasma flow and a magnetic barrier: Shock formation 2326
- Lemberskiy, V. B.  
See Khabakhpasheva, Ye. M. 1150
- Lemoine, A.  
Methods of measuring the speeds of solid particles or liquids under rapid motion in flames 6535
- Lemon, J. R.  
See Comstock, T. R. 8624
- Lempereur, F.  
Flame front structure: Study of concentration profiles 3028
- Lempriere, B. M.  
Torsion testing for shear modulus of thin orthotropic sheet 6226
- Lenci, C.  
Vertical piles withstanding horizontal force. Approach in the field of elasticity by applying Mindlin's theory 6148
- Leneman, O. A. Z.  
Random sampling of random processes: Mean-square behavior of a first order closed-loop system 7666
- Leng, J.  
Effects of oblique shock waves in the near field of rocket plumes 9841
- Lengelle, G.  
See Williams, F. A. 1401
- Lengyel, L. L.  
Two-dimensional current distributions in Faraday type MHD energy converters operating in the non-equilibrium conduction mode 5752
- Lennemann, E.  
Unsteady flow phenomena in rotating centrifugal impeller passages 7363
- Lenschow, D. H.  
Concurrent airplane and balloon measurements of atmospheric boundary-layer structure over a forest 734
- Lenskii, E. V.  
A shock by a wedge upon an elastic string 1017  
Normal impact of a cone on an elastic membrane 3498
- Lenskii, V. S.  
See Guliaev, Iu. P. 3489
- Lent, D.  
Analysis and design of mechanisms: 2nd edition 6274
- Lenz, D.  
Dislocation contribution to ultrasonic attenuation in zinc crystals as function of orientation, irradiation, plastic deformation, and recovery 1497
- Lenz, H. P.  
Principles of atomization and their application to carburetors for spark-ignition internal combustion engines 3169  
See also Pierburg, A. 8251
- Leola, S.  
See Lakshmikantham, V. 4990
- Leonard, J. W.  
Dynamic response of initially-stressed membrane shells 2646  
Inflatable shells: Nonsymmetric inservice loads 2653
- Leonas, A. C.  
See Lee, R. E. 455
- Leonas, V. B.  
See Belyaev, Yu. N. 8179
- Leondes, C. T.  
Extensions in quasi-linearization techniques for optimal control On the optimal control problem with unrestricted final time 5035  
See also Horton, W. F. 7685  
Bauman, E. J. 5022  
5958
- Leone, M.  
Utilization of carbonic anhydride in flow-stream observation 9755
- Leong, T. W.  
Creep and shrinkage in reinforced concrete beams 7962
- Leonhardt, F.  
See Dilger, W. 155
- Leonov, M. Ya.  
Relation between stresses and strains in the neighborhood of the corner point of the stress trajectory 5110
- Leonova, E. A.  
Group classification and invariant solutions for the equations of flow and heat transfer of a viscoplastic medium 8208
- Leonova, G. M.  
Flow pattern of a vapor-liquid flow in film boiling conditions 2266
- Leontev, A. I.  
Experimental investigation of convective heat transfer for a gas moving in the initial section of a cylindrical tube 8193  
Experimental determination of the rate of graphite ablation under nonisothermal conditions 9029
- Leontyev, A. I.  
Experimental study of free convection in horizontal and vertical fluid layers 2237
- Lepie, A. H.  
Forced vibration tester in tension and torsion for plastic materials under tensile strain 1735
- Le Provost, C.  
See d'Hieres, G. C. 723  
d'Hieres, G. C. 2163
- Le Quere, J.  
Method of solving transient heat transfer fields with surface temperature which varies with time 7407
- Leray, J.  
On the bending of a free-edged homogeneous elastic strip by using the Laplace transformation 3284
- Lerbs, H.  
Some aspects in the design of propellers with high power 1285
- Lerman, R. A.  
See deSpautz, J. F. 3289
- Leroy, C. C.  
Development of simple equations for accurate and more realistic calculation of the speed of sound in seawater 2378
- Lescarboua, J. A.  
See Chen, M. C. S. 1296
- Leslie, J. M.  
Human frequency response as a function of visual feedback delay 7610
- Lessaer, S.  
See Budzianowski, Z. 7023
- Lessen, M.  
Stability of three-dimensional laminar and turbulent shear layers 4614  
See also Ko, S.-H. 1185  
Ko, S.-H. 3685
- Lester, H. C.  
See Sleeper, R. K. 6968
- Lester, W. G. S.  
Some notes on fuel boiling losses and fuel-tank pressurization in a long-range supersonic aircraft 1371

- Lesunovskii, V. P.  
Characteristics of the noise spectrum of hydrodynamic cavitation on rotating bars in water 1477
- Letan, R.  
The temperature jump at the inlet of the continuous phase in a spray column heat exchanger 1375  
Residence time distribution of the dispersed phase in a spray column 4042
- Letcher, J. S., Jr.  
On boundary layers in the theory of heat conduction in solids 7408
- Letichevskii, A. A.  
The equivalence of automata with a terminal state: Part I 1666
- Leuschner, H.-W.  
See Brendel, K. 6638
- Leuze, G.  
See Pechhold, W. 5127
- Levai, Z.  
Theory of epicyclic gears and epicyclic change-speed gears 372
- Levandovskii, M. Ya.  
Technique for studying resistance to residual strain and to contact fracture of steels subjected to cyclic impact loads 8744
- Levanov, V. L.  
The bending fatigue strength of hardened gears 8801
- Levelt Sengers, J. M. H.  
See Vicentini-Missoni, M. 7390
- Leven, M. M.  
Photoelasticity: The selected scientific papers of M. M. Frocht 6208
- Levental, L. I.  
See Elperin, I. T. 6308
- Leventhall, H. G.  
See Bokor, A. 1829  
Bokor, A. 4293
- Levi, E.  
See Rom, J. 6392
- Levi, F.  
On the safety problem of hyperstatic structures 4464
- Levi, F. A.  
Thermally induced defects in hexagonal metals 5821
- Levi, I. M.  
The postcritical behavior of compressed plates that creep 6073
- Levich, V. G.  
Motion of particles suspended in turbulent flow 1239  
See also Kuchanov, S. I. 1240  
Golovin, A. M. 5836
- Levidov, V. A.  
See Anolik, M. V. 775
- Levin, A. F.  
See Popov, A. V. 3629
- Levin, B. L.  
See Volbrom, B. A. 4513
- Levin, L.  
Flow dividers for the middle Durance 1163
- Levin, L. M.  
Kinetics of the formation of a cloud spectrum 2421
- Levin, M. L.  
Interaction of a plasma with the containing high frequency magnetic travelling field 8277
- Levin, S. A.  
Principles of nonlinear superposition 9226
- Levin, Ya. A.  
Temperature of a thin body with periodic variation of the heat transfer coefficient and the temperature of the surrounding medium 2233
- Levine, H.  
See de Jager, E. M. 5272
- Levine, J. N.  
See Kliegel, J. R. 7255
- Levine, L. E.  
Unsteady, self-similar, two-dimensional simple wave flows 6363  
Two-dimensional, unsteady motion of a medium with a linear pressure-density relationship 8891
- Levinson, M.  
Stability of a compressed neo-Hookean rectangular parallelepiped 8587  
Application of Reissner's variational theorem to a finite elastic rocket problem 9324
- Levinzon, V. M.  
See Shvarts, A. L. 3012
- Levkovskii, Yu. L.  
Effect of diffusion on the sound radiation from a cavitation void 655
- Levy, A.  
See Krause, H. H. 3032  
Garnet, H. 7820
- Levy, E. K.  
Theoretical investigation of heat pipes operating at low vapor pressures 562
- Levy, T.  
Steady magnetodynamic flow around a nonconducting wedge in the case of crossed fields 6551
- Lew, H. S.  
Static tests on hybrid plate girders 1994  
On the low-Reynolds-number entry flow into a circular cylindrical tube 6743  
Flow in an occluded circular cylindrical tube with permeable wall 7606
- Lewak, G. J.  
See Chen, C. S. 6565
- Lewallen, J. M.  
See Tapley, B. D. 4847  
Hart, J. D. 6612
- Lewandowski, K.  
See Prferl, D. J. 1407
- Lewenstein, T.  
See Johnson, A. A. 1098
- Lewin, P. I.  
Stress-probe experiments on saturated normally consolidated clay 9502
- Lewine, R. N.  
See Thorp, J. S. 12
- Lewis, C. H.  
See Mayne, A. W., Jr. 6380
- Lewis, D.  
The effect of temperature on microstrains and crystallite growth in alumina 8331  
See also Dally, J. W. 2768
- Lewis, G. W., Jr.  
See Osborn, W. M. 7366
- Lewis, J. E.  
Mean properties of the turbulent near wake of a slender body with and without base injection 1197  
A Poisson integral formula for solutions of parabolic partial differential equations 1614  
Fluctuation measurements in the near wake of a wedge with and without base injection 2887
- Lewis, J. L.  
Internal-strain measurements of longitudinal pulses in conical bars 1863
- Lewis, J. P.  
Tests of sodium boiling in a single tube-in-shell heat exchanger over the range 1720° to 1980°F (1211 to 1355 K) 3880
- Lewis, J. W. L.  
Vibrational temperature measurements using the electron beam 6480
- Lewis, R. I.  
Flow disturbances due to blade thickness in turbomachines 507
- Lewis, R. L.  
See LeBlanc, J. L. 9162
- Lewkowicz, A. K.  
A family of integral methods for predicting turbulent boundary layers 7290
- Leyarovski, E. I.  
Method for investigating transport phenomena and mechanical properties of metals, deformed at low temperatures 6874
- Leyer, J. C.  
Interaction between combustion and gas motion in the case of flames propagating in tubes 6521
- Lezberg, E. A.  
See Friedman, R. 574  
Friedman, R. 1410
- Lezin, V. I.  
Design and optimization of the static characteristics for one type of pneumatic element 6799
- Li, C.-H.  
Stability of two superposed elastic-coviscous liquids in plane Couette flow 2861  
See also Bonfield, W. 3240
- Li, K. Y.  
The sliding of copper-based sintered material against steel in paraffinic mineral oil 9197
- Li, S.-P.  
See Raju, G. V. S. 5931
- Liang, S. F.  
Buoyancy-driven convection in cylindrical geometries 1330

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Liang, W. S.  
See Smith, C. D. 7376
- Lianis, G.  
See McGuirt, C. W. 680  
Goldberg, W. 5096
- Liao, H. M.  
Combined torsion in reinforced concrete L-beams with stirrups: Part 1 7117
- Libatskii, L. L.  
Fracture of disks containing cracks 4397
- Libby, P. A.  
Three-dimensional boundary layer with uniform mass transfer 2130  
Some simple surface reactions in laminar boundary layers 2905  
Temperature distribution in a porous surface 4761  
A review of some perturbation methods in boundary layer theory 8898  
See also Baccaglini, G. 4730  
Kassoy, D. R. 5542
- Lieberman, A. D.  
Investigation of short cylindrical shells 7126
- Lieberman, L. Ya.  
See Volfson, A. S. 8813
- Librescu, L.  
Bending theory of elastic anisotropic sandwich plates 3410  
The elastokinetic problem in the theory of anisotropic shells and plates 5170  
A theory of bending of anisotropic three-layered elastic plates with fillers 5172  
The elastokinetic problem in the theory of anisotropic shells and plates: Part 2, Theory of plates 6906
- Licht, L.  
On the velocity of propagation of a disturbance along a foil 1270
- Lichtarowicz, A.  
A new pneumatic valve for externally powered prostheses 8405
- Lieberherr, J.-F.  
Regression rate of the solid propellant in a hybrid rocket 3034
- Lieblein, S.  
See Clough, N. 2754
- Liebold, R.  
Determination of the elastic modulus of a concrete beam with the double pendulum process 3580
- Liebowitz, H.  
Failure of notched columns with fixed ends 5064  
Fracture: An advanced treatise: Vol. 2, Mathematical fundamentals 6180  
Fracture: An advanced treatise: Vol. 4, Engineering fracture design 6181  
Fracture: An advanced treatise: Vol. 6, Fracture of metals 6182  
Fracture: An advanced treatise: Vol. 5, Fracture design of structures 9521  
See also Mar, J. W. 9587
- Lielpeter, Ya. Ya.  
See Valdmantis, Ya. Ya. 6591  
Valdmantis, Ya. Ya. 9886
- Lientz, B. P.  
On  $\beta$ -modal intervals 3295
- Lieske, H. A.  
See Forster, K. 623
- Lietz, J.  
See Doroszkiewicz, R. S. 1946
- Lighthill, M. J.  
Dynamic response of the Indian Ocean to onset of the southwest monsoon 8362
- Likar, O.  
Deformation moments and buckling loads of tall conical towers 8595
- Likins, P. W.  
Modal method for analysis of free rotations of spacecraft 633  
Bounds on the librations of parametrically resonant satellites 2347  
See also Roberson, R. E. 6817
- Lim, L. C.  
See Beedle, L. S. 1115
- Lim, T. C.  
Character of pseudo surface waves on anisotropic crystals 4329
- Limberg, H.  
Turbulent inlet flow into slightly converging channels 8110
- Lin, C. C.  
Dynamics of self-gravitating systems: Structure of galaxies 3096
- Lin, C.-W.  
Seismic response of nuclear reactor containment vessels 1842
- Lin, K. H.  
Inelastic stability of tapered wide-flange columns 5191
- Lin, M. S.  
Buckling of spherical sandwich shells 1806
- Lin, S.  
Calculation of subsonic heat front behind a shock wave in two-dimensional supersonic flows 3702  
Graphical methods for the solution of problems of subsonic reaction fronts in two-dimensional supersonic flow: Part 2, Subsonic heating front in an expansion flow around a corner 5505  
Graphical methods for the solution of problems of subsonic reaction fronts in two-dimensional supersonic flow 7259
- Lin, S. P.  
Roles of surface tension and Reynolds stresses on the finite amplitude stability of a parallel flow with a free surface 5602
- Lin, S. R.  
See Lin, T. H. 173
- Lin, T. H.  
Theory of inelastic structures 124  
Large inextensional deflection of thin cantilevered plates 173  
Mechanics of a fatigue crack nucleation mechanism 6193  
Fatigue crack nucleation in metals 6194
- Lin, Y. K.  
Dynamics of beam-type periodic structures 5217  
First-excursion failure of randomly excited structures 9467
- Lind, N. C.  
A microstructure theory of photoelastic behavior in amorphous solids 1943  
Proceedings, Second Canadian Congress of Applied Mechanics 4133  
See also Benjamin, J. R. 4480
- Lindauer, G. C.  
See Hsu, C.-J. 3925
- Lindberg, G. M.  
See Olson, M. D. 8556
- Lindberg, H. E.  
See Vaughan, H. 973
- Lindeyer, E. W.  
See Abbott, M. B. 2054
- Lindfors, L.-E.  
Determination of residence time functions from impulse experiments in continuous flow systems 8846
- Lindgren, E. R.  
Propagation velocity of turbulent slugs and streaks in transition pipe flow 2141  
Average velocity distribution of turbulent pipe flow with emphasis on the viscous sublayer 5579
- Lindhardt, P.  
On the stability of the constant rotations of a shaft 1831
- Lindholm, U. S.  
High strain-rate testing: Tension and compression 313  
Mechanical behavior of materials under dynamic loads 1015
- Lindley, D.  
An experimental investigation of the flow in a classical venturimeter 8968
- Lindley, T. C.  
See Williams, J. A. 9537
- Lindroos, V. K.  
A camera method for the measurement of stresses by X-ray diffraction 7084
- Linehan, J. H.  
On the interface shear stress in annular flow condensation 7447
- Ling, C.-B.  
Stresses in a thick plate containing an eccentric spherical inclusion or cavity: Part 1 1714  
Stresses in a thick plate containing an eccentric spherical inclusion or cavity: Part 2 3357
- Ling, F. F.  
Boundary lubrication: An appraisal of world literature 4104  
See also Reusswig, G. J. 8821  
Li, K. Y. 9197
- Ling, G. R.  
See Tien, C. L. 8214
- Liniecki, A.  
The equation of a variable transmission ratio for a mechanical system with fluctuating load 3645

- Linkowski, J.  
Jukovski's theorem in a linearized supersonic flow 480
- Linn, F. C.  
Lubrication of animal joints: Part 2, The mechanism 753
- Linnett, J. A.  
Methods of using a vibratory system to measure small rates of turn 6983
- Linnik, Yu. I.  
See Kostetskii, B. I. 8385
- Linow, K. -J.  
On the extrapolation of the intrinsic viscosity of polymers to zero shear rate 8020
- Linz, P.  
A method for solving nonlinear Volterra integral equations of the second kind 1621
- Lions, J. L.  
Quelques methodes de resolution des problemes aux limites non lineaires (Some methods for the resolution of nonlinear limit problems) 7624
- Lipinski, J.  
State of stress and strain in a circular disk of constant thickness due to thermal nucleus in a sector of the disk 3153
- Lipka, I.  
The geometry of hobs with involute basic worm 6177
- Lipnitskii, Yu. M.  
See Telenin, G. F. 7261
- Lipovoi, G. S.  
Application of Bergman's method to certain problems of nonsymmetric flows 3695
- Lipovtsev, Yu. V.  
See Grigolyuk, E. I. 6004
- Lipskaya, M. E.  
A problem of plane deformation of an inelastic body 4240
- Lipster, R. Sh.  
The extrapolation of multidimensional Markov processes from incomplete data 4151
- Lisini, G. G.  
See Bartalucci, B. 3468
- Lisker, L.  
Transillumination of the larynx in running speech 4116
- Lissaman, P. B. S.  
A linear theory for the jet flap in ground effect 2152  
Down to earth aerodynamics: Potential and problems of the fluid mechanics of rapid ground transportation 6603  
Analysis of thick, cambered jet flap airfoils in ground effect 8928
- Listvinskii, G. Kh.  
Determination of time to failure in the case of creep 2592
- Litoshenko, A. K.  
Laminar heat transfer to water in annular channels 2231
- Little, A.  
See Shaw, D. 536
- Little, H. R.  
See Griffith, B. J. 2926
- Little, J. W.  
Sound duration and its effect on judged annoyance 650  
Empirical comparisons of calculation procedures for estimating annoyance of jet aircraft flyovers 4015
- Little, R. E.  
How to calculate the fatigue strength of parts that bend and twist 2756
- Little, R. W.  
Semi-infinite strip problem with built-in-edges 1706  
See also Brewer, W. V. 9374
- Litton, E.  
Design investigations on some welded mild steel plate girders 3606
- Litvakov, B. M.  
Convergence of recurrent algorithms for pattern recognition learning 2546
- Litvinov, I. I.  
Electron characteristics of a probe in a magnetized plasma 609
- Litvinov, I. M.  
Deep compaction of soils prone to slump-type settlement by means of explosion energy 7013
- Litvinova, A. F.  
See Rosental, Yu. G. 7746
- Litvin-Sedoi, M. Z.  
Reactions in a system of interconnected bodies realizing a prescribed motion 2556
- Litwiniszyn, J.  
On a certain Markov model of colmatage-scouring phenomena: Part 1 1513
- Liu, C. H.  
Propagation of coherent magneto-hydrodynamic waves 4793
- Liu, C. K.  
Injection or withdrawal at a plane boundary for Stokes flow with stagnation 8868  
A semiempirical study of pressure oscillations in LOX pump inducers 9732  
See also Vliet, G. C. 5653
- Liu, C. -S.  
See Cheng, R. T. 5543
- Liu, C. -Y.  
Note on the temperature profile of a laminar wedge flow 2125
- Liu, H.  
Comments on turbulence measurement in water using an electrokinetic probe 2144  
Integrating-float measurements at low velocities 4680
- Liu, J.  
See Stead, K. A. 8601
- Liu, J. T. C.  
Radiative transfer in the low Reynolds number, blunt-body stagnation region at hypersonic speeds 4741
- Liu, S. -C.  
Spectral simulation and earthquake site properties 2707
- Liu, S. W.  
Onset of surface combustion in still atmosphere 2290
- Liu, T. H.  
See Wood, E. R. 7862
- Liu, Y. K.  
Towards a stress criterion of injury: An example in caudocephalad acceleration 2445
- Liver, N. L.  
Tension piles and diagonal tie-backs 4358
- Livesay, B. J.  
See Dareing, D. W. 200
- Livesey, R.  
Gulf Stream study by submersible 7578
- Livingood, J. N. B.  
See Gauntner, J. W. 5529
- Livingstone, A. W.  
See Firth, I. M. 7559
- Livshits, A. L.  
Calculating the torsional stresses in a keyed shaft 9338
- Livshits, M. A.  
Investigation of furnace response time 569
- Livshits, V. L.  
See Livshits, A. L. 9338
- Llorens, R. E.  
The application of an orthogonal net of circles to the problem of plane strain in plasticity 7723  
See also Koenig, H. A. 919
- Lo, C. -F.  
Upwash interference on an oscillating wing in slotted-wall wind tunnels 9713  
Numerical solutions of the unsteady heat equation 9789
- Lo, T. -C.  
See Beightler, C. S. 9617
- Lob, G.  
See Becker, M. 7496
- Lobanov, L. M.  
Using photoelasticity to study non-steady thermal stresses in a turbine blade 1944
- Lobanov, V. F.  
See Kokurin, Yu. L. 1457
- Lobanova, G. L.  
See Vasileva, A. A. 6139
- Lobastov, V. K.  
Load distribution on carrier pins in planetary gears 6286
- Lobel, G.  
See Landgraf, G. 853
- Locatelli, M.  
On the behavior of elastoplastic beams on an elastoplastic foundation 5142
- Lochmann, M.  
On the synthesis of control systems which are insensitive to parameter variations 2511

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Lock, G. S. H.  
Observations on the structure of a turbulent free convection boundary layer 545
- Lock, W. P.  
Flight investigation of a fluidic autopilot system 4639
- Lockett, F. J.  
On Squire's theorem for viscoelastic fluids 2040  
On special constitutive relations in nonlinear viscoelasticity 2587  
Stability in Couette flow of a viscoelastic fluid: Part 1 8019  
Thermal stresses in a viscoelastic thin-walled tube with temperature dependent properties 8327
- Lockwood, F. C.  
See Launder, B. E. 2893
- Loeber, J. F.  
See Sih, G. C. 3480  
Sih, G. C. 3487  
Sih, G. C. 5205  
Sih, G. C. 5260
- Loeffler, A. L., Jr.  
MHD round pipe flow experiments 591
- Loeovoi, B. L.  
Determination of critical stress for bending of a cantilever beam with a crack 8708
- Loesberg, P. P.  
A model navigator based on laser 10001
- Loewy, R. G.  
Review of rotary-wing V/STOL dynamic and aeroelastic problems 9895
- Loffler, H. J.  
Thermodynamik: Erster Band, Grundlagen und Anwendung auf reine Stoffe; Zweiter Band, Gemische und chemische Reaktionen (Thermodynamics: Vol. 1, Fundamentals and applications to chemically homogeneous materials; Vol. 2, Mixtures and chemical reactions) 9764
- Lofquist, K.  
On spheres and doublets in stratified flows 3780
- Logan, J. M.  
See Friedman, M. 7044
- Logcher, R. D.  
See Connor, J. J., Jr. 1129
- Logvinov, V. B.  
See Vorobev, L. N. 4225
- Loh, W. H. T.  
Reentry and planetary entry physics and technology: Vol. 1, Dynamics, physics, radiation, heat transfer and ablation 637  
Reentry and planetary entry physics and technology: Vol. 2, Advanced concepts, experiments, guidance-control and technology 638  
Jet, rocket, nuclear, ion and electric propulsion: Theory and design 3052  
Modern developments in gas dynamics 5507  
Extension of the second-order theory of entry mechanics to nearly exact solutions 5777
- Lohse, G. E.  
See Bendixsen, C. L. 3174
- Loiseau, H.  
Study of the small harmonic vibrations of a heated structure, in the vicinity of a loading state corresponding to a partial entry into the plastic domain 7843
- Loitsianski, L. G.  
Generalized similar solution of the boundary-layer equations 3725
- Lokai, V. I.  
Investigating the effectiveness of air cooling of the blades of gas turbines 7473  
The question of cooling separate elements of a gas turbine power plant 8150
- Lokmanis, A. A.  
See Skudra, A. M. 2621
- Lokoshchenko, A. M.  
Relaxation of tubes and buckling of bars made of viscoplastic materials 8599  
See also Aliev, R. L. 3424
- Lokshin, V. A.  
Calculating the temperature conditions of the radiant heating surfaces in supercritical boilers 2993
- Lomaev, G. Z.  
Analytical method for evaluating quality of tensile testing machines 7951
- Lomakin, V. A.  
Plane problem of the theory of elasticity for bodies with fast oscillating elastic properties 868  
Moments formulation of some statistical problems in elasticity 1711  
Concentrated load near a surface with rapid nonlinear oscillations 2677
- Lomenick, T. F.  
Model pillar tests for evaluating the structural stability of openings in rock salt utilized for the disposal of radioactive wastes 1902
- Lomino, N. S.  
See Demidenko, I. I. 4821
- Lomize, G. M.  
Field investigations of stress-strain state for loess foundations under axisymmetric conditions 5302
- Londe, P.  
Stability of rock slopes: A three-dimensional study 1895
- Londhe, A. D.  
See Khadilkar, B. S. 6146
- London, A. L.  
Oblique flow headers for heat exchangers 2272
- London, A. V.  
Making fuel cells cheap enough for industrial users 8975
- Long, B. R.  
Vibration of eccentrically stiffened plates 202
- Long, C. F.  
Frequency analysis of complete spherical shells 2690
- Long, C., II  
See Thomas, D. H. 754
- Long, L. O.  
Joint control of electric governors for hydraulic turbines 2522
- Long, N. K.  
Wear and friction of rubbing pairs with variable relative sliding speeds 4094
- Longcope, D. B.  
Thermal stresses in a transversely isotropic, hollow, circular cylinder 7545
- Longini, R. L.  
See Cooley, W. L. 759
- Longley, D.  
Self-optimizing sampled-data control system employing power-constraint equalization 9306
- Longuemare, R.  
See Levin, L. 1163
- Longuet-Higgins, M. S.  
On the trapping of long period waves round islands 2415  
On the reflection of wave characteristics from rough surfaces 7536
- Lontz, J. F.  
Preliminary considerations for flexural endurance testing of semicrystalline polymers for biomedical materials standards 1109
- Lopato, G. A.  
Determining the basic profile correction factor for spiral bevel gears 5431
- Loper, C. R., Jr.  
See Kotecki, D. J. 7168
- Loper, D.  
On viscous flow within a rotating spheroidal container 8870
- Lopes, R.  
See Ho, M. M. K. 4349
- Lopina, R. F.  
Heat transfer and pressure drop in tape-generated swirl flow of single-phase water 8993
- Loraud, J. C.  
See Guenoche, H. 8068
- Lord, A. E., Jr.  
Ultrasonic determination of the diffusion coefficient of carbon in  $\alpha$ -iron at 408° and 430°C 3817
- Lord, G.  
Wave analysis of a Luneberg-Gutman fluid acoustic lens 4019
- Lordi, J. A.  
See Dunn, M. G. 9758  
Dunn, M. G. 9670
- Lorenz, E. N.  
The predictability of a flow which possesses many scales of motion 5471
- Lorenz, J. J.  
The effect of thermocapillary flow on heat transfer in dropwise condensation 9016
- Lorenzen, H. W.  
Self-excited torsional vibrations of three-phase induction machines 6972
- Lorenzi, A.  
On the measurement of low and very low gas flow rates 8967

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Lorenzo, C. F.  
Head to base transfer function characteristics of a cylindrical tank partly filled with liquid 7351
- Lorin, P. A.  
Considerations on the utilization of the plastic behavior of steel 7112
- Lorrain, P. H.  
See Kammler, D. W. 2491
- Losev, S. A.  
See Stupochenko, Ye. V. 433
- Loshchinin, V. S.  
See Artobolevskii, I. I. 8625  
Artobolevskii, I. I. 9462
- Loss, F. J.  
See Pellini, W. S. 1917
- Lottel, G.  
Identifying the dynamics of distillation column bottoms 9281
- Lotz, M.  
Blade oscillations in one-stage axial turbomachinery 3794
- Lou, R. L. H.  
Interior ballistics for wide-temperature throttling of solid-propellant rockets 9853
- Lou, S. C.  
Combining sound-pressure levels of unequal frequencies 4891
- Lou, Y. -S.  
Velocity distribution measurements for near-free molecule flow through an orifice 7273
- Loud, W. S.  
Branching phenomena for periodic solutions of non-autonomous piecewise linear systems 190
- Louie, P. T.  
See Hopkins, E. J. 3734
- Louis, J. F.  
Disk generator 612
- Lovberg, R. H.  
See Berger, J. 8357
- Loveday, R. W.  
See Gupta, B. K. 3571
- Lovell, D. A.  
Wall corrections to longitudinal components measured on wind-tunnel models with tails 7378
- Lovell, E. G.  
Nonlinear response of a cylindrical shell to an impulsive pressure 1023
- Lovelock, D.  
The uniqueness of the Einstein field equations in a four-dimensional space 1604
- Lovetskii, S. E.  
See Burkov, V. N. 6807
- Lovett, J. R.  
Comments concerning the determination of absolute sound speeds in distilled and seawater and Pacific Sofar speeds 3139
- Lovinskii, L. D.  
See Lazaryan, V. A. 8622
- Lovtsov, Yu. I.  
Calculating the volumetric efficiency of distributors in piston-type hydraulic motors 7368
- Low, W.  
Evidence for reflected shock waves behind taper sections 2884
- Lowell, S. C.  
See Manvi, R. 237  
Duvall, G. E. 2732
- Lowen, G. G.  
Survey of investigations into the balancing of linkages 1137  
See also Berkof, R. S. 4517
- Lowengrub, M.  
See Sneddon, I. N. 2748
- Lowery, L. L., Jr.  
See Edwards, T. C. 1054
- Lowne, R. W.  
The effect of road surface texture on tire wear 9200
- Lowson, M. V.  
A theoretical study of helicopter rotor noise 3123
- Loyalka, S. K.  
Thermal transpiration in a cylindrical tube 8857
- Lozano, L. J.  
See Bray, R. S. 5447
- Lozinskii, M. G.  
Registration of electrical resistance of a sample during fatigue testing in vacuum and at elevated temperatures 6196
- Lozinskii, V. N.  
See Vladimirkii, T. A. 3658
- Lu, L. -W.  
Design of braced multistory frames by the plastic method 7134  
See also Beedle, L. S. 1115  
Sheninger, E. L. 7110  
Yura, J. A. 7133
- Lu, S. Y.  
See Lee, R. -L. 4282
- Lu, T. -H.  
See Thau, S. A. 7847
- Lubbock, J. K.  
Multidimensional Laplace transforms for solutions of nonlinear equation 6785
- Lubin, B. T.  
Analytical derivation for total heat transfer coefficient in stable film boiling from vertical plate 5683
- Lubman, D.  
Spatial averaging in a diffuse sound field 4874
- Lubowe, A. G.  
Stationkeeping and synchronous satellite orbit determination  
Satellite orbit prediction in the presence of atmospheric drag 8304
- Lucaccini, L. F.  
See Freedy, A. 8412
- Lucas, D. H.  
Developments in air pollution measurement 9961
- Lucassen, L. R.  
An analysis of tuft position on a helicopter rotor blade and a comparison with experiments 7322
- Lucjanek, W. W.  
Laboratory methods of the measurements of aerodynamic derivatives 8169
- Luco, J. E.  
Dynamic interaction of a shear wall with the soil 229
- Luder, W. F.  
A different approach to thermodynamics 1305
- Luders, A.  
Affect on steering of out-of-balance and non-concentric running of independently suspended rubber-tired wheels 4206  
Operating loads and testing of disk wheels: Part 1 6282  
Effect of unbalance and eccentricity of individually suspended wheels with tires on steering 8621
- Ludlow, C.  
See Birks, A. W. 8738
- Ludwig, D.  
Boundary layers in the field scattered by a convex object at high frequencies 9134
- Ludwig, L. P.  
Torque and leakage rates of various lubricated lip seal designs at a peripheral velocity of 120 feet per second 1570  
See also Strom, T. N. 5873  
Zuk, J. 7157  
Zuk, J. 9652
- Ludwigson, D. C.  
Plastic behavior of metastable austenitic stainless steels 1740
- Lugovtsov, A. A.  
Propagation of weak shock waves in a magnetic field 9860
- Lugt, H. J.  
See Rimon, Y. 6325
- Luh, J. Y. S.  
Approximate optimal controls that maximize the probability of entering a target manifold 7683
- Luikov, A. V.  
Mass transfer of a cylinder in forced flow of a non-Newtonian viscoelastic fluid 386  
External convective mass transfer in non-Newtonian fluid: Part 1 8018
- Lukas, D. E.  
See Sherman, D. R. 8585
- Lukashkin, N. D.  
See Klygin, L. P. 4407
- Lukasiewicz, J.  
Atmospheric entry test facilities: Basic limitations and proposal for a new technique 9757
- Lukasiewicz, S.  
On shell loaded on its free edge 6900
- Lukasiewicz, S. A.  
The solution for concentrated loads on shells by means of Thompson functions 157

- Luke, Y. L.**  
The special functions and their approximations: Vols. 1-2 7634  
Inequalities for generalized hypergeometric functions 7650
- Lukey, A. F.**  
Rotation capacity of beams under moment gradient 6025  
Experiments on wide-flange beams under moment gradient 6026
- Lukomskaya, A. I.**  
Strength of bonding between rubber and cord under recurring loading 7936
- Lukyanov, N. A.**  
Calculation of mixed sub- and supersonic gas flow in a plane pressure nozzle 2105
- Lummi, A. P.**  
See Baskakov, A. P. 1377
- Lumsdaine, E.**  
Heat transfer for flows in a cone 1327
- Lundgren, T. S.**  
Model equation for nonhomogeneous turbulence 1238  
See also Sparrow, E. M. 7275
- Lundholm, G.**  
The circumferential groove journal bearing considering cavitation and dynamic stability 2437
- Lundstrom, E. A.**  
On the influence of nonsteadiness on the thickness of the detonation wave 1468
- Lunev, V. V.**  
Hypersonic similarity in the flow of an imperfect gas around slender blunt bodies of complex shape 7240  
Hypersonic flow past blunt cones with consideration of the equilibrium physicochemical transformations 7260
- Lunevskii, I. I.**  
Increasing the life of hard-surfaced components by strain-hardening 5371
- Lupu, L.**  
See Getzler, Z. 1796
- Lure, A. I.**  
The elastostatic problem of Roben for a triaxial ellipsoid 4217  
Theory of elasticity for a semi-linear material 5055
- Lure, M. V.**  
Use of a variational principle for the study of propagation of surfaces of discontinuity in a continuous medium 7844
- Lure, S. L.**  
See Strakhovich, K. I. 7286
- Lurie, K. A.**  
See Butkovsky, A. G. 2537
- Lush, P. E.**  
See O'Carroll, M. J. 1623
- Lustig, C. D.**  
Noise radiation from a plasma at electro-acoustic resonance frequencies 3121
- Lutter, B. E.**  
Engineering applications of finite automata 5052
- Luxmoore, A. R.**  
The moire effect applied to experimental stress analysis 3567
- Luxton, R. E.**  
On the concept of eddy viscosity 2140  
See also Manton, M. J. 2908
- Luz, E.**  
Phenomenological description of the damping properties of solids with application to vibrating continua 7835
- Lvov, S. V.**  
Selecting optimum blade angles of multi-stage torque converter wheels 4666
- Lvovskii, L.**  
Analysis of finite automata 1687
- Lyalikov, A. S.**  
Radiative heat transfer for a rod bundle in a cylindrical shell 2245
- Lyall, H. G.**  
See Skinner, V. R. 4724
- Lyamshev, L. M.**  
Sound transmission through a piezo-electric semiconducting plate in a liquid 4886  
Sound scattering by a slender piezo-electric semiconducting rod 5800  
See also Greshilov, E. M. 6390
- Lyapkov, P. D.**  
Calculating the delivery head of a centrifugal pump 7364
- Lyapunov, V. T.**  
Insulation of flexural waves in plates by an arbitrary obstacle 1024  
Transmission of flexural waves across an elastic spacer at a plate junction 2705  
Forced vibrations of a thin plate with a rigid disk 7819
- Lyashenko, V. F.**  
Stability of a gyrostat on a moving foundation 5973
- Lyatkher, V. M.**  
Turbulent fluctuations in the viscous sublayer 5577
- Lyman, J.**  
See Freedy, A. 8412
- Lynch, A. J.**  
Automatic control system for mineral grinding circuits 3331  
Studies on the operating characteristics of hydrocyclone classifiers 4038
- Lynch, R.**  
See Ayache, K. 8294
- Lyness, J. N.**  
Quadrature methods based on complex function values 1631
- Lynn, P. P.**  
Free transverse vibration of flat slabs 999
- Lysanov, Yu. P.**  
Resonance effects in the scattering of waves by an uneven interface with a small sound velocity differential 656
- Lysmer, J.**  
Finite dynamic model for infinite media 1031
- Lysov, M. I.**  
See Kataev, Yu. P. 857
- Lyttle, J. E.**  
Some metallurgical characteristics of tough, high strength welds 8008
- Lyubarov, B. I.**  
Effect of residual stresses on the stability of an eccentrically compressed rod 7785
- Lyubarskii, I. M.**  
Friction in vacuum 744
- Lyubimov, A. V.**  
See Kogarko, S. M. 7534
- Lyuboshits, V. M.**  
Law of attenuation of a plane shock wave in a dense medium 6119
- Lyudmirkaya, I. B.**  
Description of the algorithm of calculation of dynamic loads of gear 3637
- Lyustikh, E. N.**  
Energetics of dislip faults in the upper mantle 3192

## M

- Ma, B. M.**  
Thermal and pressure stresses in cylindrical reactor pressure vessels 9947
- Ma, C. Y.**  
See Griffiths, R. T. 6393
- Mabey, D. G.**  
An investigation of the rolling moments due to slideslip on high tailplanes at subsonic, transonic and supersonic speeds 5586
- Mabry, J. E.**  
See Little, J. W. 650  
Little, J. W. 4015
- Macagno, M.**  
See Landweber, L. 6091
- MacCormack, A. I.**  
Control of cooling and heating coils 3887
- MacDonald, B. A.**  
See French, D. N. 1958
- MacDonald, N. J.**  
The evidence for the existence of Rossby-like waves in the hurricane vortex 6705
- MacDonald, N. S.**  
See Thompson, J. C. 10027
- MacFarlane, A. G. J.**  
Use of power and energy concepts in the analysis of multivariable feedback controllers 3328
- MacFarlane, I. C.**  
See Forrest, J. B. 6155
- MacGregor, J. G.**  
Design of slender concrete columns 7115

- MacGregor, R. K.**  
Free convection through vertical plane layers: Moderate and high Prandtl number fluids 2235
- Machek, J.**  
*See Rudis, M.* 6398
- Machenbauer, B.**  
*See Eliassen, E.* 9180
- Machida, S.**  
*See Kanazawa, T.* 1919
- Machin, K. E.**  
*See Chakrabarti, S. K.* 7075
- Machlin, E. S.**  
*See Ohring, M.* 6870
- Machmeier, R. E.**  
Runoff hydrographs for mathematical watershed model 3202
- Machyulis, A. N.**  
Ablation of thermal resistant polymers: Part 1, Analysis of mechanism of ablation destruction 9030
- MacInnes, W.**  
*See Weiss, V.* 3549
- Macioce, E.**  
Generalized investigation of turbojet performance data 6542
- Maciulaitis, A.**  
*See Loeffler, A. L., Jr.* 591
- Mackenzie, A. C.**  
Generalized stress/strain rate relations for creep of thin shells: A comparison of "exact" and approximate relations  
*See also Bill, I. M.* 5097  
*Spence, J.* 875  
2591
- Mackie, A. G.**  
Two-dimensional quasi-stationary flows in gas dynamics 441  
A cavitation model in one-dimensional unsteady motion 7177  
*See also Levine, L. E.* 8891
- MacKinnon, D.**  
Optimal control of systems with pure time delays using a variational programming approach 5946
- MacKinnon, R. F.**  
Some calculations of gravity wave resistance in an inviscid stratified fluid 8939  
*See also Warren, F. W. G.* 6703
- Mackison, D. L.**  
*See Bainum, P. M.* 9907
- MacLaine-Cross, I. L.**  
An approximate method for calculating heat transfer and pressure drop in ducts with laminar flow 1326  
A numerical method of Chebyshev optimum linkage design 3642
- MacLeod, I. A.**  
New rectangular finite element for shear wall analysis 3620
- MacManus, B. R.**  
Dynamic effects of machining with alternating current 3534
- MacNaughton, J. D.**  
Deployable booms for gravity gradient stabilization: A progress report 3999
- Macpherson, A. K.**  
The three-dimensional detonation polar and an application to spinning detonation 1470  
On the structure of single headed spin detonation 4006  
Shock collision at a molecular level 5516
- Maczek, A. O. S.**  
Thermal conductivities of gaseous mixtures containing polar gases: Part 1, More than one polar constituent 9772  
Thermal conductivities of gaseous mixtures containing polar gases: Part 2, One polar constituent 9773
- Madan, S.**  
*See Oosthuizen, P. H.* 8991
- Madan, V. P.**  
On longitudinal vibrations of a semi-infinite Voigt-Kelvin rod with non-uniform viscoelastic properties 6990  
Response of a viscoelastic beam to an impulsive excitation 8664  
Vibration of viscoelastic beams carrying an arbitrary number of concentrated masses 9435
- Maddalon, D. V.**  
Effect of varying wall temperature and total temperature on transition Reynolds number at Mach 6.8 5563
- Maddocks, K. L.**  
Conveying by vibration 4522
- Maddux, G. E.**  
*See Jordan, S.* 3586
- Madey, J. M.**  
Design techniques for small scientific satellite structures 641
- Madhav, M. R.**  
A study of consolidation characteristics of kaolinitic clay 3504
- Madhava Rao, A. G.**  
*See Baikov, V. N.* 8772
- Madignier, F.**  
*See Lenci, C.* 6148
- Madsen, O. S.**  
The transformation of a solitary wave over an uneven bottom 5598
- Maeda, K.**  
*See Yamada, Y.* 7201
- Maeda, S.**  
*See Habara, H.* 6170  
*Ishiguro, R.* 7413
- Maeda, Y.**  
Ultimate strength of single-story two-span welded rigid frames 1997  
Influence of web deformation upon flexural-torsional buckling of I-shaped beams 6922
- Maekawa, T.**  
Flow around the separation point and in the near-wake of a circular cylinder 5566
- Maestrello, L.**  
Radiation from and panel response to a supersonic turbulent boundary layer 9130
- Magee, J. L.**  
*See Landshoff, R. K. M.* 2244
- Mager, A.**  
Sudden acceleration of a laminar boundary layer by a moving belt 5535
- Magnus, K.**  
Investigations on the motion of a symmetric, time-dependent and self-excited rigid body 6816
- Magomedov, K. M.**  
*See Lunev, V. V.* 7260
- Magono, C.**  
Comparison of aerial cloud pictures with satellite pictures—clouds over the Pacific Ocean: Part 4 7584
- Magora, A.**  
*See Robin, G. C.* 1583
- Magrab, E. B.**  
Farfield radiation from an infinite elastic plate excited by a transient point loading 644  
Transient response of a case-bonded nonlinear viscoelastic cylinder 870  
Transient response of a viscoelastic bar subjected to a time dependent end-displacement 2726
- Magrini, U.**  
*See Bonato, L.* 8963
- Mah, G. B. J.**  
Matrix method for linear response of structures 6090  
Axisymmetric finite deflection of circular plates 6910
- Mahalanabis, A. K.**  
*See Kang, H. S.* 4185  
*Bhaumik, H.* 8463
- Mahalanabis, R. K.**  
A mixed boundary value problem of thermoelasticity 4897
- Mahalingam, S.**  
A solution of the eigenvalues of a vibrating system by an iteration using pairs of bounds 6935
- Maier, F. J.**  
Wind loads on Kresge Auditorium and Traveler's Building 364
- Mahmoodi, P.**  
Structural dampers 3462
- Maidanik, G.**  
Operational method for evaluating the farfield radiation from plane boundaries 4884  
System of small-size transducers as elemental unit in sonar system 6639
- Maier, G.**  
Complementary plastic work theorems in piecewise-linear elastoplasticity 127  
Some theorems for plastic strain rates and plastic strains 1736  
Quadratic programming and theory of elastic-perfectly plastic structures 2784  
A method for approximate solutions of stationary creep problems 6002  
*See also Mohler, K.* 6005
- Maier, P.**  
Measurements of turbulence on an isothermal swirling free jet 7315
- Maikapar, G. I.**  
Optimization of hypersonic lifting bodies 7327

- Maiofis, Z. B.**  
See Strunina, A. G. 5786
- Mair, W. A.**  
Reduction of base drag by boat-tailed afterbodies in low-speed flow 8929
- Maisel, H.**  
Introduction to electronic digital computers with emphasis on the system/360, FORTRAN IV, and PL/I 27
- Maiti, M.**  
Application of a Legendre function of the second kind in transverse wave propagation in an elastic sphere 1867
- Maiti, S. R.**  
Thermal stresses in an infinite elastic plate having a pair of insulated circular holes 1502
- Maizel, V. L.**  
See Lukomskaya, A. I. 7936
- Majcen, M.**  
New approach to the cycle and overall efficiency improvement of steam turbine plants 3042
- Majid, K. I.**  
Elastic-plastic design of sway frames by computer 3588  
The evaluation of the failure loads of plane frames 7976
- Majumdar, A. J.**  
See de Vekey, R. C. 5361
- Makai, E.**  
On the torsional rigidity of a beam of convex cross-section 6848
- Makarov, B. P.**  
See Bolotin, V. V. 4280
- Makarov, I. S.**  
See Zhukova, L. A. 1190
- Makarov, O. F.**  
See Ivanov, A. I. 8493
- Makarov, V. A.**  
The design of aerostatic thrust bearings 3237
- Makeev, E. M.**  
See Andreev, L. V. 6930
- Makhailenko, G. P.**  
See Filimonov, Yu. F. 3522
- Makhankov, V. I.**  
Capacitive sensor for measuring ultralow temperatures 3847  
Concerning the solution of heat conduction problems for shells 5642
- Makhin, V. A.**  
See Drobnyazko, B. S. 7344
- Makhovikov, V. I.**  
Solution of heat conduction problems for a body of revolution made of inhomogeneous material 5646
- Maki, H.**  
See Mori, Y. 9749
- Maki, T.**  
See Iguchi, A. 6510
- Makky, S. M.**  
Rupture surfaces of a thick spherical shell under internal pressure 5329
- Maksak, V. I.**  
See Mitrofanov, B. P. 115
- Maksimenko, V. P.**  
See Dlugach, M. I. 9393
- Maksimov, E. I.**  
Theory of combustion of condensed substances 2284
- Maksimov, V. M.**  
On the convergence of products of independent random variables taking on values from an arbitrary finite group 19
- Makukhin, S. I.**  
Study of static and dynamic bending curves 7940
- Makushok, E. M.**  
Some relations for a slip line field in the form of circular arcs 9362
- Mal, A. K.**  
Diffraction of elastic waves by a rigid circular disk 1027
- Malaiu, E.**  
See Hacker, T. 6810
- Malakhova, O. F.**  
See Andreev, V. D. 9314
- Malanoski, S. B.**  
See Chiang, T. 2439
- Malavard, L.**  
Naval hydrodynamic problems solved by rheoelectric analogies 2487
- Malcolm, D. G.**  
Some aspects of turbulence measurement in liquid mercury using cylindrical quartz-insulated hot-film sensors 6404  
An investigation of the stability of a magnetohydrodynamic shear layer 8260
- Malcolm, G. N.**  
The effects of a nonrigidly supported ballast on the dynamics of a slender body descending through the atmosphere 3976
- Male, D. J.**  
See Sved, G. 4209
- Malecki, I.**  
Quasi-phonon model of acoustic scattering on a real obstacle 9136
- Malhotra, S. K.**  
Buckling strength of solid timber columns 8584
- Malhotra, V. M.**  
Concrete rings for determining tensile strength of concrete 9557
- Malik, G. N.**  
See Polyakov, L. M. 6223
- Malikova, T. A.**  
The calculation by computer of rectangular plates of considerable length 6143
- Malinovskii, L. G.**  
A mathematical method of describing electrocardiograms 1593
- Malkevich, M. S.**  
Statistical parameters of the vertical structure of layered clouds and of meteorological elements 726
- Malkin, A. Ya.**  
Instruments for measuring normal stresses during flow of elastic-viscous liquids: Review 6302
- Malkina, O. S.**  
On the error in determining the stress concentration at a free hole by plane elasticity theory methods 5070
- Malkov, M. A.**  
Asymptotic study of the two-dimensional problem of elastic impact of bars 3485
- Mallett, R. H.**  
See Jordan, S. 3586
- Mallory, H. D.**  
Luminosity and pressure aberrations in detonating nitromethane solutions 9119
- Malmberg, J. H.**  
See Moore, C. D. 2525
- Malovechko, G. V.**  
See Gur'ev, A. V. 1743  
Gurev, A. V. 5370
- Maltsev, V. D.**  
See Pines, B. Ya. 9155
- Malvern, L. E.**  
Introduction to the mechanics of a continuous medium 3265  
See also Stevens, A. L. 9478
- Malygin, A. F.**  
See Getsov, L. B. 8329
- Malyutin, A. A.**  
See Korobkin, V. V. 4838
- Mamatkazin, D. A.**  
Some laws of spacecraft orbit control 3103
- Mamedov, R. M.**  
See Rasizada, Ya. M. 9004
- Mamegov, N. A.**  
On the bending of cantilever trapezoidal plates 6895
- Mamonov, V. M.**  
See Grigorjan, A. A. 2742  
Grigoryan, A. A. 6147
- Mamontov, E. V.**  
A note on unsteady near-sonic flows 7263
- Man, F. T.**  
See Davison, E. J. 7670
- Mandel, J.**  
On the ordinary waves in viscoelastic media 235  
Thermodynamics and waves in viscoplastic media 2964
- Mandel, J. A.**  
Stress analysis of translational shells 4257
- Mandel, P.**  
On formal properties of the quasi-particle description 2955
- Mandersloot, W. G. B.**  
Flow rates from multipoint measurements with velocity probes (Pitot tubes) 6450
- Mandl, P.**  
An iterative method for maximizing the characteristic root of positive matrices 7616

- Maneri, C. C.**  
The rise velocity of bubbles in tubes and rectangular channels as predicted by wave theory 6675
- Manevich, L. I.**  
Nonlinear vibrations and stability of rods subjected to dynamic loading 198
- Manfredi, B.**  
Existence and nonexistence of periodic solutions to a problem in nonlinear mechanics 3441
- Mangaraj, D.**  
Polymeric materials and vascular prosthesis 8407
- Mangasarian, O. L.**  
Nonlinear programming 5910
- Mangeron, D.**  
A theorem concerned with generalized heat transfer phenomena  
Application of the Laplace-Picone transforms with finite integration interval to the study of mathematical physics differential systems: Part 1, Problems related with fourth-order partial differential equations 2463  
*See also Chaleat, R.* 191
- Mangulis, V.**  
The effects of a single bubble on the sound field of a piston 648  
New method of evaluating mutual coupling of sources on nonsimple bodies 2360
- Manheimer-Timnat, Y.**  
*See Weihs, D.* 1221  
*Chervinsky, A.* 4723
- Mani, M. K.**  
*See Srinivasan, P.* 6975
- Manian, V. S.**  
Heat transfer measurements in cylindrical wall jets 8049  
Turbulence measurements in a cylindrical wall jet 9692
- Manmadha Rao, J.**  
On the jump of a function by its Fourier coefficients 8427
- Mann, D. B.**  
*See Kropschot, R. H.* 528
- Mann, F. I.**  
*See Lancaster, J. E.* 4843
- Mann, J. Y.**  
*See Finney, J. M.* 6198
- Manna, F.**  
Rotating disks of unconventional profile 1788  
On motion laws in a uniform rotating force field 5968
- Mannheimer, R. J.**  
Surface rheological properties of foam stabilizers in nonaqueous liquids 4535
- Manoim, N. M.**  
*See Zikov, S. A.* 1382
- Mansfield, E. H.**  
On the stresses near a crack in an elastic sheet 2570
- Mansurov, V. I.**  
*See Marshak, Yu. L.* 9036
- Manton, M. J.**  
A derivation of some isotropic turbulence relations 2908  
*See also Luxton, R. E.* 2140
- Manton, S. M.**  
Temperatures at lubricated rolling/sliding contacts 748
- Manuel, F. S.**  
*See Lee, S.-L.* 5196
- Manukyan, Yu. S.**  
*See Dzhikeya, K. S.* 9293
- Manushin, E. A.**  
*See Ivanov, V. L.* 3893
- Manvi, R.**  
Finite amplitude longitudinal waves in lattices 237  
*See also Duvall, G. E.* 2732
- Mar, J. W.**  
Structures technology for large radio and radar telescope systems 9587
- Marais, G. v. R.**  
Stresses in wedges of cohesionless materials formed by free discharge at the apex 1885
- Marakhovskii, V. B.**  
*See Varshavskii, V. I.* 7692
- Marasimha, R.**  
Minimum error solutions of the Boltzmann equation for shock structure 526
- Marchal, C.**  
Optimization of the extra-atmospheric part of the ascending trajectory to an orbit: Part 3, The target orbit is hyperbolic (departure for an interplanetary mission) 625
- Marchand, A.**  
*See Boissier, A.* 9827
- Marchello, J. M.**  
*See Cramer, S. D.* 2041  
*Cramer, S. D.* 2833  
*Sykes, J. A.* 7213  
*Goldman, I. B.* 7319
- Marchenko, G. A.**  
On vibration of plates in a gas stream 3454  
Solution of nonconservative problems in the theory of elastic stability by Ritz's method 8583
- Marchertas, A. H.**  
Strength-deformation considerations of a reactor core support structure 3053
- Marchesini, G.**  
On the evaluation of the response of nonlinear systems by functional series expansion of forced and free responses 8602
- Marchetti, S.**  
Design charts for sheet piles and for anchored bulkheads 4354
- Marchi, E.**  
Vibrations in hollow circular membranes with elastic supports 6079
- Marchionna, N. R.**  
Turbojet combustor performance with natural gas fuel 5715
- Marchman, J. F., III**  
Entrance configuration effects on tube flow in the transition regime 7271
- Marchuk, G. I.**  
A numerical method of calculating tidal motion in border seas 8363
- Marcillat, J.**  
Probability distribution functions of turbulent velocities in a boundary layer: Effects of hot-wire anemometry response 7321
- Marciniak, Z.**  
On various forms of instability in sheet material undergoing plastic tension 137
- Marconi, P.**  
Some recent V/STOL research and developments 9099
- Mardles, E. W. J.**  
The flow of liquids through fine capillaries and narrow channels: The meniscus resistance (Jamin effect) 5883
- Marec, J. P.**  
Optimal transfers between close elliptical orbits 3104
- Marechal, J.**  
On some transversal correlations in grid turbulence subject to plane deformation 473  
On some lengths of longitudinal correlation in a grid-turbulence subject to plane deformation 474  
On certain Taylor scales in a grid turbulence subject to plane deformation 475
- Marechal, J. C.**  
Measure of the thermic conductivity by the method of the indirectional thermic field 6483
- Marecos, J.**  
Field observation of Tagus River Suspension Bridge 348
- Mareczek, G.**  
*See Argyris, J. H.* 5582
- Marek, I.**  
On the polynomial eigenvalue problem with positive operators and location of the spectral radius 2458
- Maresca, C.**  
*See Brocher, E.* 3120
- Margason, R. J.**  
Review of propulsion-induced effects on aerodynamics of jet V/STOL aircraft 5590
- Margolin, A. D.**  
*See Bobolev, V. K.* 5719
- Margotey, A. N.**  
Stresses and deformations in a multi-layered half-space with surface loading along a strip 6852
- Margozzi, A. P.**  
*See Klein, E. J.* 6395
- Marguerre, K.**  
Determination of the kinetic influence coefficients of chains of bars with many members by means of the feedback concept 5216  
Elastic plates 6030

- Maria-Sube, R.**  
Study by an electric analogy method of plane incompressible rotational jets 2082
- Marichev, V. A.**  
Stroboscope for microstructural examination of the fatigue process 7930
- Marienfeld, H.**  
Variable analog installation with servo-controlled aircraft model for the simulation of various fixed-wing aircraft 8456
- Marin, Gh.**  
*See Constantinescu, V. N.*  
*See Salcudean, M.* 4105  
7597
- Marinescu, Al.**  
Search for optimal rendezvous maneuvers of space vehicles in orbits with minimum fuel consumption On the measurements of the current parameter in the subsonic and supersonic aerodynamic tunnel 2352  
6457
- Marinescu, Gh. A.**  
The orbital motion 6609
- Mariupolskii, L. G.**  
Interpretation of the results of pressometer tests 6124
- Mark, R.**  
Photoelastic analysis of concrete storage tanks 5347
- Markeev, A. P.**  
Stability of a canonical system with two degrees of freedom in the presence of resonance 1461
- Markhashov, L. M.**  
Time-optimal pulse operation in linear systems 1673  
Calculation of the invariant manifolds of the Lie-group using its defining equations 4145
- Markland, E.**  
*See Barlow, J. F.* 5454
- Markos, A. T.**  
*See Childs, A. G.* 9915
- Markov, A. A.**  
Asymptote of a one-dimensional transverse nonsteady flow of thermally conducting gas with shock-compression zone 4593
- Markovets, M. P.**  
Method for determining the quantitative creep criteria from the long-term hardness 9562
- Marks, W.**  
Determination of decisive loading conditions in the optimum design of beam bridges 1992  
Optimum design of shape of prestressed concrete beams from the condition of equal strength according to Caquot's hypothesis 5403  
*See also Jaworski, J.* 2797
- Markus, G.**  
Analysis of a cylindrical shell with a circular plate closure (having bending stiffness) using a moment distribution process 2637
- Marmo, J. F.**  
*See Klinzing, G. E.* 5882
- Marnevskaia, L. A.**  
Diffraction of a plane scalar wave by two spheres 1491
- Marone, I. Ya.**  
*See Katsnelson, B. D.* 8239
- Marris, A. W.**  
Vector fields and flows on developable surfaces 1171  
Addendum to "Vector fields of solenoidal vector-line rotation": A class of permanent flows of solenoidal vector-line rotation 4560  
On steady three-dimensional motions 5479  
Universal deformations in isotropic incompressible hyperelastic materials when the deformation tensor has equal proper values 8501
- Marro, G.**  
*See Basile, G.* 1676
- Marrotte, N. W.**  
*See Kennedy, R. G.* 6240
- Marschall, E.**  
Uncertainties of calculated characteristics of a transpiration-cooled arc 9072  
*See also Sparrow, E. M.* 4748
- Marsh, C.**  
Single angle members in tension and compression 178
- Marshak, Yu. L.**  
Investigation of automatic combustion process control in a boiler with vertical cyclone extension furnaces 9036
- Marshakov, V. N.**  
Burning and quenching of a powder in the presence of a rapid pressure drop 8236
- Marshall, P. W.**  
Risk evaluations for offshore structures 6268
- Marshall, S. W.**  
*See Bunney, R. E.* 5802
- Marshall, W. R., Jr.**  
*See Dickinson, D. R.* 3018
- Marshall, W. T.**  
A survey of the problem of lateral instability in reinforced concrete beams 3597
- Marston, C. H.**  
*See Warren, W. R.* 4694
- Marta, H. A.**  
Wheel-rail adhesion 6270
- Martelli, G.**  
*See Giles, M.* 4932
- Marterstock, R.**  
*See Leistner, G.* 6509
- Martin, B. W.**  
*See de Forge Dedman, A. S.* 519  
*See Mukerjee, T.* 4760  
*See Astill, K. N.* 7214
- Martin, C. J.**  
*See Hildebrandt, J.* 3242  
*See Hildebrandt, J.* 7604
- Martin, C. S.**  
Open-channel surge simulation by digital computer 8830
- Martin, D. W.**  
*See Albasing, E. L.* 2641
- Martin, E. D.**  
Study of a directional-mean-free-path method for gas flow in translational nonequilibrium 8082
- Martin, F. W.**  
*See Munro, H. P.* 36
- Martin, H.**  
The process of hardening of Portland cement 5389
- Martin, J. A.**  
*See McGhee, R. J.* 4596
- Martin, J. B.**  
Approximate solutions for impulsively loaded elastic-plastic beams 1047  
*See also Augusti, G.* 5981  
*See Johnson, G. L.* 7863
- Martin, L. D.**  
*See Liu, H.* 4680
- Martin, L. H.**  
*See Holmes, M.* 7141
- Martin, L. P.**  
The moire method for measuring large plane deformations: General theory and application to homogeneous deformation 4431
- Martin, M.**  
Hydroelasticity of hydrofoils 3223
- Martin, P.**  
Method for calculating the flow characteristics of control valves in steam turbines 1411
- Martin, R. A.**  
Dynamic analysis of XB-70-1 inlet pressure fluctuations during takeoff and prior to a compressor stall at Mach 2.5 8256
- Martin, R. E.**  
Free vibrations of anisotropic conical shells 3460
- Martin, R. J., III**  
*See Brace, W. F.* 263
- Martin, R. S.**  
The Q R algorithm for real Hessenberg matrices 8442
- Martin, V. M.**  
*See Gesund, H.* 1122
- Martinez, J. E.**  
*See Stricklin, J. A.* 6070
- Martirosyan, M. M.**  
Effect of aging on creep of SVAM glass-reinforced plastic in tension with allowance for the orientation of the fibers 121
- Marton, K.**  
The analysis of the slip conditions of sliding wire drawing machines 1071
- Martynenko, A. M.**  
*See Veitz, V. L.* 1854
- Martynova, L. D.**  
Investigations on specific point resistance and specific frictional resistance in relation to pile section 2743

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Martynyuk, A. A.**  
Contributions to the theory of N. G. Chetaev concerning the stability of nonstationary motion in a given interval of time 7800
- Marui, E.**  
*See* Kato, S. 1852  
Kato, S. 6092  
Kato, S. 7833
- Maruo, H.**  
Tables of functions associated with the theory of ship waves 4955  
Theory and application of semi-submerged ships of minimum wave resistance 5859
- Maruyama, T.**  
Large-scale disturbances in the equatorial lower stratosphere 3213  
Stress fields in the neighborhood of a crack 4390
- Marvin, J. G.**  
A method for solving the nonsimilar laminar boundary-layer equations including foreign gas injection 2121  
*See also* Gallo, W. F. 7287  
Stewart, D. A. 7429
- Marwick, R.**  
*See* Lane, R. G. T. 8781
- Marzollo, A.**  
*See* De Julio, S. 2533
- Masaki, S.**  
*See* Oyane, M. 275
- Mashelkar, R. A.**  
*See* Sharma, M. M. 8861
- Mashin, B. A.**  
*See* Andreev, A. I. 4462
- Masica, W. J.**  
*See* Cochran, T. H. 8235
- Maslov, E. P.**  
Sensitivity of linear systems with respect to random disturbances 2495
- Maslov, V. E.**  
*See* Protsailo, M. Ya. 8244
- Maslov, V. P.**  
Reflection of a flexural wave from an angular junction of plates 2721
- Maso, J.-C.**  
*See* Legrand, C. 247
- Mason, C.**  
A numerical solution of the conduction problem with radiating surface 9786
- Mason, J.**  
British standard code of practice for loading: Wind loads 9591
- Mason, J. D.**  
*See* Vincent, T. L. 1678
- Mason, J. M.**  
*See* Bokor, A. 1829
- Mason, W. P.**  
Fatigue mechanism in fcc metals at ultrasonic frequencies 1089  
Internal friction mechanism that produces an attenuation in the Earth's crust proportional to the frequency 3187  
*See also* Wood, W. A. 7059
- Masri, S. F.**  
Analytical and experimental studies of multiple-unit impact dampers 220  
General motion of impact dampers 8632
- Massey, B. S.**  
Some properties of laminar boundary layers on curved surfaces 5539  
*See also* Kavrak, I. 4013  
Clayton, B. R. 7308
- Massier, P. F.**  
Heat transfer and laminar boundary-layer distribution in an internal subsonic gas stream at temperatures up to 13,900 deg R 6379  
*See also* Back, L. H. 1228  
Back, L. H. 2241  
Back, L. H. 4608  
Cuffel, R. F. 7233
- Massimo, L.**  
Statistical temperature distribution calculation in pebble-bed reactors 9854
- Masson, B. S.**  
Application of Godunov's method to blunt-body calculations 1198  
*See also* Taylor, T. D. 2093
- Massonnet, C.**  
Postbuckling behavior of stiffened plates subjected to pure shear: Part 2, Distribution of stress and analysis of the limit state 3435  
Limiting state of a square plate subjected to shear and reinforced by a central vertical stiffener 6074
- Massonnet, Ch.**  
Some exceptional cases in the theory of multigirder bridges 2808  
*See also* Skaloud, M. 7791
- Massoud, M. F.**  
*See* Morcos, W. A. 2020
- Masuda, T.**  
Experiments on the temperatures of the main bearings in water cooled automobile gasoline engines 3917
- Masure, B.**  
*See* Delery, J. 6381
- Matake, T.**  
On the fatigue damage of 7:3 brass specimens under combined stress 1095
- Matczynski, M.**  
On a certain case of equilibrium cracks under harmonic loads 7705
- Mate, K. V.**  
*See* Fournery, M. E. 7917
- Mateer, G. G.**  
Unusual boundary-layer transition results on cones in hypersonic flow 2131
- Mateescu, D.**  
Cruciform wings and tails fitted with conical bodies in supersonic flow: Part 1, Conical flow 1245  
Cruciform wings and tails fitted with conical bodies in supersonic flow: Part 2, High order conical flows 5585
- Mateja, O.**  
Free vibrations of a strip of plates with variable thickness 6954  
Free vibrations of masts and slim towers 6963
- Mather, B. S.**  
Observations on the effects of static and impact loading on the human femur 4978
- Mather, J. W.**  
Stability of the dense plasma focus 8266
- Mathers, J.**  
A megohmmeter for the measurement of the insulation resistance of ceramic installations for strain gages 9547
- Mathieu, P. G.**  
Multivariate analysis used in the detection of stratigraphic anomalies from seismic data 3186
- Mathur, M. C.**  
The static stability of a cone-cylinder flare and two cone-cylinder fin-flare combinations at supersonic speed 6418
- Mathur, M. N.**  
Heat transfer in a slow steady flow of an elastico-viscous fluid in a wavy cylindrical tube 2232
- Matkowsky, B. J.**  
*See* Bloom, C. O. 4882
- Matochko, S. I.**  
*See* Strelbitskaya, A. I. 1770
- Matolcsy, M.**  
Working strength of cracked sheet constructions 5328
- Matschinsky, W.**  
Simple approximative method for the determination of the natural period of a nonlinear vibrator with one degree of freedom 6937  
On the calculation of tangential forces on tires on roads with short waves 6965
- Matsubara, K.**  
On the sliding friction tester and its natural frequency 7602
- Matsubara, N.**  
*See* Yamamoto, Y. 7797
- Matsudaira, T.**  
Problems on hunting of railway vehicle on test stand 6272
- Matsui, H.**  
*See* Kamimoto, G. 1218
- Matsumoto, E.**  
Method of stress analysis for plate with variable thickness subjected to concentrated load 3396
- Matsuo, K.**  
*See* Ikui, T. 3832  
Ikui, T. 3833
- Matsuoka, K.**  
*See* Sato, M. 467  
Yonezawa, M. 1251  
Yonezawa, M. 7332
- Matsushita, T.**  
Plasma phenomena in semiconductor plate 8268
- Matsuzawa, K.**  
Ultrasonic transducers with flexurally vibrating diaphragms for use in air 7540

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Matsyulyavichyus, D. A.  
Principle of duality in linear problems of the synthesis of optimal elastic hinged-rod systems 5384  
On the synthesis of a hinged-rod structure of minimal weight in the case of many loads with a more general system of restrictions 5385
- Mattei, G.  
Wave propagation and instabilities in a rotating anisotropic plasma 603
- Mattes, N. S.  
Settlement of single compressible pile 5304  
See also Poulos, H. G. 3510
- Matthaus, W.  
Tuning process of motor-level gages with porous orifice 8163
- Matthews, C. W.  
A numerical analysis of the use of perforated walls to control shock location and movement in an internal-compression supersonic inlet 1212
- Matthews, J. C.  
See Hong, S.-N. 9814
- Matthieu, P.  
Investigations on impact-like plastic penetration and flattening phenomena 1882
- Mattock, A. H.  
Diagonal tension cracking in concrete beams with axial forces 1983  
See also Osburn, D. L. 1756  
Hofbeck, J. A. 1986
- Matula, D. W.  
See Baer, R. M. 2486
- Matusevskiy, G. V.  
The relation between the true and mean slopes of the disturbed sea surface 9175
- Matusz, J. M.  
Local flexibility coefficients for the built-in ends of beams and plates 4245
- Matuura, S.  
See Okumura, T. 1000
- Matveev, S. K.  
Unsteady heat transfer in ablation 6512
- Matveev, Yu. I.  
Wave attenuation in an inhomogeneous relaxing medium 9137
- Matyushin, L. V.  
The work-hardening effect of ultrasonic cleaning 5805
- Matzner, B.  
See Israel, S. 5690
- Maulard, J.  
Surface temperature thermal fluxmeters for shock-tubes 9760
- Maunder, L.  
See Boocock, D. 1851
- Maurer, J. R.  
See Barnoski, R. L. 1008
- Maurer, R. E.  
See Strehlow, R. A. 1397
- Maurice, J.  
See Lenci, C. 6148
- Maurin, L. N.  
Equilibrium of a liquid film on a rotating sphere 6434  
See also Bratukhin, Iu. K. 8934
- Maury, J.-F.  
See Fargette, F. 7954
- Maxwell, D. E.  
See Hofmann, R. 238
- Maxworthy, T.  
Experiments on the flow around a sphere at high Reynolds numbers 9686
- Maybee, J. S.  
See Genin, J. 7811
- Mayes, W. H.  
See Carden, H. D. 7528
- Mayne, A. W., Jr.  
Binary boundary layers on sharp cones in low-density supersonic and hypersonic flow 6380
- Mayoglou, B.  
See Osburn, D. L. 1756
- Mazalov, V. N.  
See Nemirovsky, Y. V. 1840
- Mazelsky, B.  
Effect of axial compression on low-cycle fatigue of metals in torsion 4413  
See also Lin, T. H. 173
- Mazumdar, Dzh.  
An estimation of the error involved in the approximate solution of plate bending problems by the method of constant-deflection line 3399
- Mazumdar, J.  
A method for solving problems of elastic plates of arbitrary shape 9371
- Mazur, P.  
See de Groot, S. R. 2194
- Mazur, S. J.  
See Malhotra, S. K. 8584
- Mazurkiewicz, B.  
Combined fracture pattern for cofferdams with two-sheet piling walls 2744
- Mazurkiewicz, S.  
Investigation of the dynamic properties of the Tarlon X-A polyamide 6861
- Mazurkiewicz, Z.  
Bending and buckling of elastic structures composed of straight bars of variable cross-section and loaded by the weight 2657  
Vibrations and static bending of shallow shells with variable curvature 6089  
See also Jankowska, A. 4258
- Mazzolani, F. M.  
Rigid-plastic collapse loads for reinforced concrete skew plates with built-in edges 6248
- McAlister, E. D.  
Heat transfer in the top millimeter of the ocean 7568
- McAllum, W. E.  
Development of meteoroid protection for extravehicular-activity space suits 9492
- McBride, D. D.  
See Sherman, P. M. 7250
- McBride, J. B.  
Collisional damping of plasma oscillations 9870
- McCammon, N. R.  
Some loading tests on long pipelines 9512
- McCarthy, J. J.  
Static stresses on wide-bladed propellers 8795
- McCarthy, M. F.  
Micropolar viscoelastic waves 233  
The growth of discontinuities in relativistic gas dynamics 6424
- McCarty, J. L.  
Effect of surface protuberances on impact limiters for spherical hard-landing payloads 7864
- McCarty, R. D.  
See Gosman, A. L. 2962
- McClamroch, N. H.  
Sensitivity of linear control systems to large parameter variations 6800
- McClelland, B.  
Problems in design and installation of offshore piles 7027
- McClintock, R. B.  
See Spencer, R. C. 5631
- McConaghy, G. A.  
Surface tension driven oscillatory instability in a rotating fluid layer 9648
- McConalogue, D. J.  
The effects of secondary flow on the laminar dispersion of an injected substance in a curved tube 8863
- McConkey, A.  
See Eastop, T. D. 9763
- McConnell, K. G.  
Some implications of vibration testing of continuous systems for resonant frequencies 1859
- McCormack, P. D.  
Vortex rings and the plate jet 4573  
Periodic vorticity and its effect on flow over a flat plate 8050
- McCormick, P. G.  
Hydrostatic pressure and the mechanism of creep in aluminum 9348
- McCoy, B. J.  
Second-order constitutive relations for polyatomic fluids 3701
- McCoy, H. E.  
Variation of the mechanical properties of irradiated Hastelloy N with strain rate 1747
- McCroskey, W. J.  
Laminar boundary layers on helicopter rotors in forward flight 8910
- McCue, G. A.  
See Radbill, J. R. 9255
- McCutchan, J. W.  
See Kroll, J. E. 7444

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- McDaniel, T. J.  
See Lin, Y. K. 5217
- McDaniel, W. L., Jr.  
System response improvement by state variable feedback 7656
- McDermott, J. F.  
Local plastic buckling of A 514 steel members 1791  
Plastic bending of A514 steel beams 3419
- McDonald, D.  
See Leimbach, K.-R. 9456
- McDonald, D. A.  
Regional pulse-wave velocity in the arterial tree 4121
- McDonald, H.  
The effect of pressure gradient on the law of the wall in turbulent flow 3755  
Linear stress distribution and the turbulent boundary-layer equations of motion 8901
- McDonald, J. E.  
The effect of confining reinforcement on the ductility of reinforced concrete beams 5400
- McDonald, T. W.  
See Manian, V. S. 8049
- McDonald, W. J.  
See Winter, P. M. 8702
- McDougall, I. R.  
The ambient fluid influence on solids discharge from hoppers 9955
- McElhinney, D. M.  
Designing to combat fatigue 1090
- McEligot, D. M.  
See Reynolds, H. C. 560
- McFadden, D.  
Lateralization and detection of a tonal signal in noise 1481
- McFadden, P. W.  
See Nealy, D. A. 3185
- McFalls, R. K.  
A study of welded columns manufactured from flame-cut plates 1145
- McFarland, D. E.  
See Easley, J. T. 962
- McGahan, L. C.  
See Fehr, U. 4868
- McGarr, A.  
Amplitude variations of Rayleigh waves: Horizontal refraction 2410  
Amplitude variations of Rayleigh waves propagation across a continental margin 3189
- McGehee, J. R.  
Analytical investigation of an inflatable landing system having omnidirectional and multiple-impact capabilities 2341
- McGhee, R. B.  
On the stability properties of quadruped creeping gaits 6738
- McGhee, R. J.  
Exploratory investigation of flow field resulting from forward-facing nozzles exhausting near a large cylindrical body at freestream 5217
- Mach numbers of 3.0 and 6.0 Aerodynamic investigation of sharp cone-cylinder spikes on 120° blunted cones at Mach numbers of 3.00, 4.50, and 6.00 5506
- McGrath, I. A.  
See Chen, D. C. C. 2282
- McGrath, J. T.  
The mechanical and microstructural changes in quench aged Fe-C alloys subjected to cyclic straining 1928
- McGraw, J. R., Jr.  
See Ditaranto, R. A. 5239
- McGraw, R. A.  
See Hayday, A. A. 4618
- McGregor, J.  
See Strannigan, J. S. 1954
- McGregor, M.  
See Brandi, G. 3252
- McGuirt, C. W.  
Experimental investigation of non-linear, nonisothermal viscoelasticity 680
- McInnes, D.  
See Savage, S. B. 5833
- McIntyre, M. E.  
On the non-separable baroclinic parallel flow instability problem 7174
- McIvor, I. K.  
Two-dimensional scattering of a plane compressional wave by surface imperfections 1872  
See also Lovell, E. G. 1023
- McKay, S. S., II  
See Kelley, H. J. 1462
- McKay, W. I.  
See Reinecke, W. G. 3500
- McKee, R. B., Jr.  
A statistical model for the tensile fracture of parallel fiber composites 6206
- McKenzie, J. F.  
Interaction of linear waves with oblique shock waves 6354  
Hydromagnetic wave interaction with the magnetopause and the bow shock 9059
- McKinley, R. M.  
A field application of pulse-testing for detailed reservoir description 8352
- McKinzie, D. J., Jr.  
Simplified method for calculating thermal conductance of rough, nominally flat surfaces in high vacuum 3867
- McLaughlin, J. F.  
Concrete—today and tomorrow 2791
- McLaughlin, P. F.  
See Stout, R. D. 8010
- McLean, D.  
Riki-tiki-Riccati or the tale of a small ubiquitous equation found everywhere in optimal control 811
- McLean, J. T.  
See Nicol, A. A. 2999
- McLeary, R.  
Band of dynamic pressure on a solid elastic cylinder 231  
The interaction of a plane wave with a spherical cavity 1019
- McLeish, W.  
See McAlister, E. D. 7568
- McLennan, G. A.  
Accelerometer correction for the dynamic analysis of damped multi-degree-of-freedom systems 2406  
An exact correction for accelerometer error in dynamic seismic analysis 4062
- McLeod, J.  
PHYSBE: A year later 1596
- McManus, P. F.  
Horizontally curved girders: State of the art 1993  
Nonuniform torsion of composite beams 2617
- McMillan, A. R.  
See Clough, N. 2754
- McMillen, L. D.  
See Hsu, C. T. 8074
- McMillin, L. M.  
See Warnecke, G. 8365
- McMullen, A. E.  
Concrete beams in bending, torsion and shear 8765
- McNally, W. D.  
FORTRAN program for calculating compressible laminar and turbulent boundary layers in arbitrary pressure gradients 8101
- McNeice, G. M.  
Comparison of finite element and unique limit analysis solutions for certain reinforced concrete slabs 7122
- McNicholas, J. V.  
Spectrum broadening due to oceanwave interference 1267
- McNitt, R. P.  
Some aspects of linear irreversible thermodynamics in the presence of electromagnetic fields 4699  
See also Peddieson, J., Jr. 984  
Stanisic, M. M. 4701
- McNiven, H. D.  
Critical angles associated with the reflection-refraction of elastic waves at an interface 654  
Rockbolting of tunnels for structural support: Part 1, Theoretical analysis 7048  
See also Ewoldsen, H. M. 7049  
Mengi, Y. 9476
- McRae, T. G., Jr.  
Spectroscopic temperature measurements of shock-heated helium 446
- McShane, E. J.  
Toward a stochastic calculus: Parts 1 and 2 5905
- McSkimin, H. J.  
Measurement of ultrasonic attenuation and phase shift in the presence of noise 1498

- McTaggart-Cowan, J. D.  
The design, construction, and use of  
an ice crystal counter for ice crystal  
cloud studies by aircraft 9187
- McVehil, G. E.  
See Fichtl, G. H. 4069
- McVeigh, J. C.  
See Vasy, G. S. 8030
- McWilliams, J. R.  
See Willard, R. J. 4372
- Meacham, H. C.  
A computer study of dynamic loads  
caused by vehicle-track interaction 4233
- Mead, D. J.  
Free wave propagation in periodical-  
ly supported, infinite beams 8649
- Meador, W. E.  
A critical analysis of the Grad ap-  
proximation for closing out the  
magnetohydrodynamic equations  
for plasmas 3083  
Induced pressure and temperature  
gradients in a plasma as a result of  
weak electric fields 5743  
Modifications to Fourier's law of  
heat conduction through the use  
of a simple collision model 8974  
First-order effects of plane surfaces  
on the kinetic behavior of gases 9677
- Measures, R. M.  
See Belozzerov, A. N. 3708
- Mechetnii, V. S.  
On the stability of combined auto-  
matic systems of one class 6790
- Mechtold, F.  
Hebe- und Förderanlagen:  
Grundlagen, Bauarten,  
Anwendungen: 5. Auflage  
(Lifting and transport machinery:  
Fundamentals, design, and ap-  
plications: 5th edition) 7162
- Meddins, H. R.  
An apparatus for the high-tempera-  
ture measurement of thermal  
diffusivity, electrical conductivity  
and Seebeck coefficient 535
- Medin, S. A.  
See Bityurin, V. A. 9887
- Meditch, J. S.  
Minimum mean-square error  
stochastic linear control 819
- Medley, S. S.  
Laser interferometry in the pres-  
ence of transverse plasma density  
gradients 9890
- Mednikov, E. P.  
Theory of acoustic streaming about  
very small spherical obstacles 1487
- Mednikov, I. A.  
Coefficients of subgrade reaction of  
a linear multilayer base 1052  
Equivalent characteristics of soil for  
plates on an elastic base of a finite  
number of inhomogeneous layers 7025
- Medwell, J. O.  
See Cheung, Y. K. 5643
- Meecham, W. C.  
Prediction of equilibrium properties  
for nearly normal model turbulence 8911
- Megarefs, G. J.  
See Reiss, R. 1116
- Megerlin, F.  
Geometrically one-dimensional heat  
conduction including melting and  
solidification 4725
- Mehlig, J. G.  
Heat and mass transfer in the case  
of evaporation cooling 7454
- Mehrotra, B. L.  
Analysis of three-dimensional thin-  
walled structures 5377
- Mehrotra, C. L.  
See Srinath, L. S. 7927
- Mehta, H. S.  
See Lambert, E. R. 6168
- Mehta, P. K.  
See Davids, N. 3496
- Mehta, S.  
Thermoelastic stresses in rotation of  
a circular cylinder in finite defor-  
mation theory 1787
- Mehta, U. B.  
Flow in a two-dimensional channel  
with a rectangular cavity 8851
- Mehta, V. D.  
See Sharma, M. M. 8861
- Mei, C.  
Free vibrations of circular mem-  
branes under arbitrary tension by  
the finite-element method 1825
- Mei, C. C.  
Steady free surface flow over wavy  
bed 7337  
Scattering of surface waves by  
rectangular obstacles in waters of  
finite depth 9737  
See also Madsen, O. S. 5598  
Black, J. L. 7339
- Mei, V. C.  
Flow separation on a vibrating  
circular cylinder 8106
- Meier, E.  
See Rytli, M. 6541
- Meier, F.  
See Staub, F. 2485
- Meier, H. U.  
A combined temperature and pres-  
sure probe for compressible flow 3813
- Meier, W.  
Determination of the total energy  
in the tail-water of Kaplan turbines 4663
- Meijer, P. H. E.  
See Farrell, R. A. 6459
- Meinheit, D. F.  
See Birkemoe, P. C. 6203
- Meinhold-Heerlein, L.  
Wave modes in liquid helium  
capillaries 6432
- Meirovitch, L.  
Analytical methods in vibrations 6075
- Meissner, L. P.  
High order resonance for Duffing's  
differential equation 9430
- Meixner, J.  
Processes in simple thermodynamic  
materials 523
- Melkaya, I. Yu.  
A stationary model of a radiation-  
fog 4942
- Melkonian, A. P.  
On the bending of the transversely-  
isotropic plates, lying on the elas-  
tic foundation 9375
- Mellor, R.  
Pressure jet spray in air stream 9957
- Melnikov, B. A.  
A new method of preparing and  
designing of gears on conical sur-  
faces and an analysis of its preci-  
sion 5432
- Melnikov, B. N.  
See Shvets, V. B. 7018
- Melnikova, L. M.  
See Shveiko, Yu. Yu. 196
- Melosh, R. J.  
Efficient solution of load-deflection  
equations 1975
- Mels, K. D.  
See Marta, H. A. 6270
- Melsharov, A. F.  
See Voloshenko-Klimovitskii, Yu. Ya. 2779  
Belyaev, Yu. A. 9952
- Melts, I. O.  
Determination of influence func-  
tions for constructing improving  
variations of the control functions  
and parameters of dynamic sys-  
tems with discontinuous right-hand  
sides 1671
- Meltzer, G.  
The determination of an optimal  
degree of balancing for elastically  
supported piston engines 9464
- Melvin, J. W.  
See Fallenstein, G. T. 4113
- Melworm, R. F.  
See Patel, P. D. 1771
- Mendel, J. M.  
Performance cost functions for a  
reaction-jet-controlled system  
during an on-off limit cycle 2498
- Mendelson, A.  
Plasticity: Theory and application 6863
- Mendelson, H. D.  
See Maneri, C. C. 6675
- Menditto, G.  
First results of simplified analysis of  
second-order effects in a cylindrical  
shell subjected to wind loading 6064
- Meng, P. R.  
See Moore, R. D. 8032  
Moore, R. D. 9746
- Mengi, Y.  
Analysis of the transient excitation  
of an elastic rod by the method of  
characteristics 654  
See also McNiven, H. D. 9476  
654
- Menn, C.  
Displacements of bridge bearings 6261

- Mennicken, R.  
Investigations of linear differential equations with sinusoidal coefficients 765
- Menteshov, E. V.  
Effect of the explosion of a sheet charge on an aluminum plate 6118
- Mentre, P.  
Approximate calculation of boundary layers and heat transfers at the walls of shock tubes 7294
- Mercer, C. E.  
Effect of plug base contour on performance of a fully truncated plug nozzle with translating shroud 6361
- Meredith, D. J.  
Electromagnetic generation of ultrasonic waves in metals 6645
- Merigoux, J.  
Experimental study of the discharge coefficient of sharp edged orifices in sonic regimen 2182  
On the calculation of the theoretical discharge of a sonic tube, in the case of a real gas 4579
- Merkulov, L. G.  
Normal mode phase velocities in a plate of a cubic crystal 7858
- Merkulov, V. M.  
See Rubtsov, A. N. 6481
- Merriam, C. W., III  
See Michael, G. J. 9294
- Merrick, V. K.  
Instability of slender thin-walled booms due to thermally induced bending moments 7552  
See also Tinling, B. E. 7513
- Merrill, R. B.  
Thermal conduction through an evacuated idealized powder over the temperature range of 100° to 500° K 4726
- Mersman, W. A.  
A unified treatment of lunar theory and artificial satellite theory 2351
- Merte, H., Jr.  
See Coeling, K. J. 4746
- Merten, H.  
See Sell, G. 5886
- Merz, J.  
Graphical determination of the operational characteristics of a gas turbine 5731
- Merzhanov, A. G.  
See Maksimov, E. I. 2284  
See Khaikin, B. I. 5708  
See Strunina, A. G. 5786  
See Strunina, A. G. 9122
- Meskan, D. A.  
See Bernstein, M. J. 4835
- Mesrine, R.  
A contribution to the study of measurements in very high-enthalpy flows 1302
- Messerle, H. K.  
See Campbell, B. 2190
- Messiter, A. F.  
Boundary-layer flow near the trailing edge of a flat plate 8092  
See also Spriggs, J. H. 3973  
Olsson, G. R. 6382
- Metelitsa, B. Z.  
Joints with conical clamping rings 5450
- Metger, G. W.  
See Rohde, J. E. 1216
- Metherell, A. F.  
Instantaneous energy dissipation rate in a lap joint—uniform clamping pressure 7836
- Metz, W. C., Jr.  
The utilization of integral equations for solving three-dimensional, time-invariant, conservative fields 2466
- Metzger, D. E.  
Impingement cooling of concave surfaces with lines of circular air jets 2223
- Metzger, H.  
Distribution of oxygen partial pressure in a two-dimensional tissue supplied by capillary meshes and concurrent and countercurrent systems 10022
- Meurzec, J.-L.  
See Clerc, D. 6595
- Meyer, E.  
See Leistner, G. 6509
- Meyer, R. X.  
Hypersonic flow of a diatomic dissociating gas with power-law shock 2879
- Meyer, W. A.  
Theoretical analysis of the performance of an air-modulated speaker 2359
- Meyer-Piening, H.-R.  
Theoretical and experimental investigation of the postbuckling behavior of thin-walled circular cylinders with rigidly clamped edges and subjected to external pressure 6934
- Meyer-Pittroff, R.  
A reversal function for the "1967 IFC formulation for industrial use" to calculate the temperature of superheated steam as a function of pressure and enthalpy 6471
- Meyers, N.  
A new cryogenic storage system for spacecraft 1313
- Miasnianskin, Iu. M.  
See Bykovtsev, G. I. 6019
- Miastkowski, J.  
Analysis of the memory effect of plastically prestrained material 9345  
Limit analysis of strip with holes 9357
- Michael, D.  
Torsional coupling of core walls in tall buildings 361
- Michael, D. H.  
Particle collision efficiencies for a sphere 4911
- Michael, G. J.  
Stability of parametrically disturbed linear optimal control systems 9294
- Michalke, A.  
A note on spatially growing three-dimensional disturbances in a free shear layer 5574
- Michalski, B.  
See Doroszkiewicz, R. S. 1946
- Michel, R.  
Turbulent boundary layer velocity distributions in a uniform or accelerated compressible flow 8096
- Michelberger, P.  
See Salyi, B. 3604
- Michellini Di San Martino, R. C.  
A note on journal bearing stiffness 9204  
See also Rossi, L. C. 4853
- Michelsen, F. C.  
See Chang, P.-Y. 2694
- Michelson, I.  
A solution of the three-dimensional oblique-incidence liquid jet problem 8867
- Michiyoshi, I.  
Buoyancy effects on forced convection flow and heat transfer 8998
- Middel, J.  
See Fieger, K. 1662
- Middleton, F. H.  
See Fain, G. 9964
- Midgley, J. W.  
See Pritchard, C. 1567
- Midzuno, Y.  
Nonlinear behaviors of waves in a plasma in the vicinity of marginally stable state 8265
- Migay, V. K.  
Heat transfer in rough pipes 8226
- Migdal, D.  
Time-dependent calculations for transonic nozzle flow 2091
- Mihailescu, M.  
The differential constitutive law in the case of plane waves 1877
- Mikami, H.  
Separation of gas mixture in an axisymmetric supersonic jet 442  
Critical mass flow of rarefied gas mixture through a slit nozzle 450  
Two-dimensional supersonic jet near sonic nozzle exit 5525
- Mikesell, W. R.  
Application of primary sealing criteria to a self-energized gasket 2821
- Mikhailov, A. I.  
Investigation of heat transfer in longitudinal air flow over a staggered tube bundle 1378  
Investigation of heat transfer and fluid friction in a viscous gravitational flow of water in a horizontal tube at  $q_w = \text{const}$  2234
- Mikhailov, A. P.  
See Grigolyuk, E. I. 2331
- Mikhailov, G. K.  
On some two-dimensional problems of steady ground-water flow to point drains in a given external field 6685
- Mikhailov, I. G.  
See Gitis, M. B. 4885

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Mikhailov, M.  
Formulas on critical forces in cases of rods with variable moments of inertia 9409
- Mikhailov, M. D.  
See Milchev, V. A. 8190
- Mikhailov, N. V.  
See Pashkovskii, V. G. 5326  
Leichkis, D. L. 9012
- Mikhailov, P. A.  
See Eshchenko, G. D. 4384
- Mikhailovskii, E. I.  
Calculation of short shells of revolution 4261
- Mikhalevich, A. A.  
Approximate analytical investigation of heat transfer during condensation on a vertical surface in nonisothermal flow 9823
- Mikhlin, N. M.  
See Kragelskii, I. V. 5866
- Mikic, B. B.  
See Cooper, M. G. 3858  
Lorenz, J. J. 9016
- Miklosko, J.  
Numerical integration with weight functions  $\cos kx$ ,  $\sin kx$  on  $[0, 2\pi/t]$ ,  $t = 1, 2, \dots$  2478  
Numerical integration with highly oscillating weight functions 7638
- Miklowitz, J.  
See Scott, R. A. 226  
Peck, J. C. 228  
Gakenheimer, D. C. 1870  
Scott, R. A. 8657
- Miklyaev, P. G.  
Determination of the anisotropy of the mechanical properties of metals 1726  
Kinetics of the macrofailure of magnesium alloy sheet considering anisotropy of mechanical properties taken into account 4396  
Statistical aspect of estimating anisotropy of mechanical properties of materials 7928
- Mikolajczak, A. A.  
Flow through cascades of slotted compressor blades 8952
- Mikoshiba, S.  
Two coil  $rf$  determination of plasma conductivity 3948
- Mikyska, L.  
Resistance characteristics of self-ventilating cooling towers 6508
- Mikyskova, M.  
Test air flow measurement by central inlet diaphragm and Venturi nozzle on suction branch of radial ventilator 512
- Milashauskas, A. P.  
Effect of the length of the specimen on the life in the case of nonsteady loading 285
- Milchev, V. A.  
Storage of heat by a semi-infinite body exposed to a stepwise temperature cycle 8190
- Milenski, J. W., Jr.  
Light antiaircraft projectile ballistics 9924
- Miles, J.  
Scattering of gravity waves by a circular dock 2939
- Miles, J. P.  
Bifurcation in rigid-plastic materials under spherically symmetric loading conditions 6865
- Miles, J. W.  
Lee waves in a stratified flow: Part 4, Perturbation approximations 493  
The lee-wave regime for a slender body in a rotating flow 2852  
Transient motion of a dipole in a rotating flow 7188  
See also Huppert, H. E. 492
- Milgram, J. H.  
The motion of a fluid in a cylindrical container with a free surface following vertical impact 2165
- Milic, B.  
Excitations of electrostatic ion-cyclotron oscillations in weakly ionized plasma placed in an external dc electric field 1427
- Miller, C. D.  
Necessary thickness of randomly oriented armor for meteoroid protection 7002
- Miller, C. F., Jr.  
A graphic method for determining the absolute attitude of sounding rocket vehicles 631
- Miller, C. G.  
Nozzle boundary-layer displacement thickness at Mach numbers 30 to 70 7298
- Miller, D. A.  
Dusty fluid round a cylinder in oscillatory rotation 2077
- Miller, D. S.  
A study of the application of heat or force fields to the sonic-boom-minimization problem 9132
- Miller, G. K., Jr.  
Fixed-base visual simulation of pilot-controlled descents of an advanced Apollo spacecraft with an all-flexible parawing 4850
- Miller, G. K., II  
Axisymmetric stress-wave propagation across the common end-face between two semi-infinite cylinders, solid to fluid 3791
- Miller, I. H.  
See Barmby, B. D. 5409
- Miller, J. A.  
Heat transfer in the oscillating turbulent boundary layer 4610
- Miller, J. G.  
A "sampled-continuous wave" ultrasonic technique and spectrometer 5803
- Miller, J. T.  
See Jones, M. H. 3768
- Miller, M. J.  
See Soltis, R. F. 3804  
Soltis, R. F. 9743
- Miller, M. L.  
Combined free and forced convection with two-dimensional solidification over a horizontal semi-infinite plate 9795
- Miller, R. C.  
Temperature profiles and energy balances for an inductively coupled plasma torch 8271
- Miller, R. P.  
Experimental bending strength of an Atlas LV-3C booster beyond compressive skin wrinkling 4502
- Miller, R. W.  
Experimental study of the effects of orifice plate eccentricity on flow coefficients 1294
- Miller, S.  
Dimensioning of links and its influence on the position deviation 5435
- Miller, W. H.  
A review of contemporary solid rocket motor performance prediction techniques 9051
- Millett, W. E.  
See Bowen, D. E. 4029
- Mills, A. C.  
Experiments on the buckling of simply-supported rectangular plates 6062
- Mills, A. F.  
The condensation coefficient of water 5689  
See also Denny, V. E. 9822
- Mills, D. G.  
See Gesund, H. 1122
- Mills, R. D.  
Some finite two-dimensional contractions 5469
- Mills, R. H.  
Dependence of drying shrinkage on dimensions of specimens 7118
- Mills, S. M.  
See Winter, K. G. 2923
- Milne-Thomson, L. M.  
Theoretical hydrodynamics: 5th edition 411  
The second circle theorem and uniform shear flow 2850  
Axisymmetrical inviscid flows with vorticity proportional to distance from the axis 3682  
The circle theorem and the cylinder theorem 5468
- Milton, B. E.  
Generation of implosions by area change in a shock tube 2191
- Milyutkin, V. P.  
Maximum principle for problems with delays, fixed durations, and free trajectory right ends 1679
- Minagawa, S.  
Variational methods for the calculation of elasto-plastic deformations of a bar by a longitudinal torsion 886  
A geometrical theory concerning stresses in a curved membrane and some expressions for stresses derived thereby 3391

- Minagawa, S. (*Continued*)  
Theory of stress-function spacetime with special reference to expressions for time-dependent stresses and moment-stresses 6837
- Minakova, N. I.  
See Vorovich, I. I. 6920
- Minami, Y.  
The fatigue strength of circular bars containing cracks 293
- Minato, K.  
Rolling friction of metals 8381
- Mindyuk, A. K.  
Corrosion activity of aqueous sulfuric acid solutions 297
- Minges, J. V.  
See Fowler, P. 3656
- Minin, V. A.  
See Lvov, S. V. 4666
- Minko, L. Ya.  
See Grechikhin, L. I. 7491
- Minkowycz, W. J.  
The effect of superheating on condensation heat transfer in a forced convection boundary layer flow 1372
- Mints, M. B.  
See Verdish, E. N. 3846
- Mints, R. I.  
See Korshunov, L. G. 3233
- Minutscbehr, D.  
Limiting velocity, critical pressure ratio and critical mass flow rate of adiabatic nozzle, pipe and labyrinth flows of an ideal gas including losses 3720
- Mioduchowski, A.  
Sandhill analogy for plastically twisted rods with discontinuous inhomogeneity 1744  
Sand hill analogy for plastic torsioned bars with jump nonhomogeneity 4249
- Miranda, C. F.  
See Baker, W. J. 1057
- Mirata, T.  
A semi-empirical method for determining stresses beneath embankments 1897
- Mirels, H.  
See Grabowsky, W. R. 6590
- Mironenko, B. A.  
Calculation of flameout conditions in the wake of a bluff body from the ignition time delay 2285
- Mironenko, Yu. A.  
Hydrodynamical calculation of slip bearings in the case of incomplete filling of the clearance by the lubricant 4101
- Mironov, B. P.  
Calculation of heat transfer in nozzles 8205  
Electron-optical measurements of the velocity in the boundary layer of a high-temperature gas 9691
- Mironov, O. M.  
Electromagnetic pump based on the pinch effect 3094
- Miropolskii, Yu. Z.  
See Kitaigorodskii, S. A. 729
- Miropolskiy, Yu. Z.  
See Kitaygorodskiy, S. A. 3207
- Miropolskiy, Z. L.  
Effect of heat flux and geometry on the friction factor in flow of water-steam mixtures through channels 1158  
Critical boiling heat fluxes in curved channels 5684
- Mirsalimov, V. M.  
See Cherepanov, G. P. 9351
- Mirsky, I.  
Left ventricular stresses in the intact human heart 2446  
Pulse velocities in initially stressed cylindrical rubber tubes 2450
- Mirzad, S. H.  
A new finite element shell analysis 5162
- Mirzadzhanzade, A. Kh.  
The law of gas filtration in a porous medium 9160
- Misawa, R.  
See Shutt, A. 272
- Mishenkina, Z. R.  
Interpretation of refracted wave travel-time curves when there are vertical and horizontal velocity gradients 6699
- Mishra, C. B.  
Stresses due to a small elliptic hole on the neutral axis of a deep rectangular beam subject to flexure under shear 5989  
Stresses in elasto-plastic composite disk of variable thickness, with a central circular hole, rotating about the central axis 8575
- Mishra, D. M.  
See Das, A. K. 9486
- Mishra, R.  
See Arora, S. S. 4199
- Mishra, R. S.  
See Dwivedi, R. P. 9061
- Mishra, S. P.  
Flow of elastico-viscous liquid between rotating cylinders with suction and injection 7223
- Misicu, M.  
The generalized dual continuum in elasticity and dislocation theory 98  
Mecanica mediilor elasticitati structurale (Mechanics of deformable media: Fundamentals of structural elasticity) 2559  
A distorsional type theory of thin shells 5163
- Miskolczy, G.  
See Rosensweig, R. E. 374
- Misra, K.  
Transverse impact on cantilever having a mass attached at the free end 4294
- Mitchell, A. R.  
Computational method in partial differential equations 6770  
See also Gourlay, A. R. 1635  
Gourlay, A. R. 1636
- Mitchell, B. J.  
Electromagnetic seismograph constants by least-squares inversion 1535
- Mitchell, C. E.  
Nonlinear oscillations in liquid rocket combustion chambers 3909
- Mitchell, C. G. B.  
Calculation of the response of a transport aircraft to continuous turbulence and discrete gusts and a comparison with flight measurements 2160
- Mitchell, D.  
See Lancaster, P. R. 1697  
Al-Sikafi, Q. H. 2772
- Mitchell, J. K.  
Causes of clay sensitivity -1890  
Bonding, effective stresses, and strength of soils 4337  
In-place treatment of foundation soils 5301  
See also Houston, W. N. 7020
- Mitchell, J. W.  
An expression for internal flow heat transfer for polynomial wall temperature distributions 1328
- Mitchell, L. A.  
An experimental study of the frictional behavior of steels at elevated temperatures 4967
- Mitchell, W. S.  
Evaluation of the acoustic response of an air-water siren 1485
- Mitkevich, V. M.  
Investigation of shallow reinforced shells of revolution with the aid of an electronic digital computer 9398
- Mitor, V. V.  
Experimental investigation of radiation and reflection characteristics of some solid bodies 5676  
Investigation of heat transfer through the wall of a studded tube 9829
- Mitra, D.  
Analytical results on the use of reduced models in the control of linear dynamical systems 5019
- Mitra, D. N.  
On the mixed boundary value problems of some elastic disk bounded partly by a straight line 5057
- Mitrofanov, B. P.  
Anisotropy of elastic preliminary displacements 115
- Mitronova, V. A.  
See Berzon, I. S. 4921
- Mitroshin, E. I.  
See Ageev, Zh. S. 5776
- Mitsuhashi, S.  
See Udoguchi, T. 7060
- Mitsui, Y.  
See Washio, K. 345
- Mitsuishi, N.  
Heat transfer with laminar flow in vertical concentric annuli with constant inner wall temperature 2224  
Non-Newtonian flow in non-circular ducts 3664

- Mitsuya, Y.  
See Ota, H. 4295
- Mitsuyasu, H.  
On the growth of the spectrum of wind-generated waves: Part 1 1543  
A note on the nonlinear energy transfer in the spectrum of wind-generated waves 2935
- Mittendorf, H.  
The use of normalized polynomials for the interpolation of functions in several variables 782
- Mitra, T. K.  
Effect of diaphragms on load distribution characteristics in a box-section bridge with overhangs 5408
- Mityushin, Yu. P.  
See Baskakov, A. P. 4912
- Miura, K.  
Proposition of pseudo-cylindrical concave polyhedral shells 4283
- Miyagawa, M.  
Measurement of modulus or rigidity  $G$  by means of twisted square plates 5998
- Miyai, Y.  
See Onishi, Y. 7194  
Nakatani, H. 9105
- Miyake, Y.  
Carbon dioxide in the surface water and the atmosphere in the Pacific, the Indian and the Antarctic Ocean areas 5847
- Miyazaki, K.  
Model identification of fluid flow in a continuous flow chemical reactor by the response to a white noise tracer input 9280
- Miyashita, I.  
See Hayashi, S. 4950
- Miyasugi, T.  
Heat transfer to fully developed turbulent flow in a circular tube with a nonsteady circumferential heat flux 6487
- Miyata, H.  
See Tamate, O. 6822
- Miyatake, O.  
See Mitsuishi, N. 2224
- Miyazaki, Y.  
See Echigo, R. 2252
- Miyazono, S.  
Some applications of fixation of photoelastic-fringe patterns by gamma rays 3560
- Mizel, V. J.  
Observation and prediction for the heat equation 8187
- Mizoguchi, K.  
Deformation and strength of a pressure vessel with elliptical cross section 357  
Vibration of a cylindrical shell clamped at both ends 2692
- Mizuno, S.  
See Maekawa, T. 5566
- Mizushima, T.  
Eddy diffusivities for heat in the region near the wall 2226  
Turbulent heat transfer in non-Newtonian fluids 6496
- Mizutani, Y.  
See Nakajima, K. 4098
- Mkrtchian, R. E.  
See Chobanian, K. S. 838
- Mlotkowski, A.  
Strength of circular plate with one-sided ribs subjected to antisymmetric bending 2648
- Mnev, E. N.  
The reaction of a loaded cylindrical shell to a pressure wave which moves with a supersonic velocity in the direction of the cylinder 4326
- Moavenzadeh, F.  
See Gradowczyk, M. H. 7720
- Moayeri, M. S.  
See Strelkoff, T. 9633
- Mochalov, G. A.  
High-temperature vacuum dilatometer with optical measurement of specimen length 5831
- Mochalov, I. P.  
Progress of deformations in intensely sagging loess grounds in the course of wetting 4353
- Mockros, L. F.  
Validity of Stokes theory for accelerating spheres 5497  
See also Carney, J. F., III 2946  
Weissman, M. H. 3247
- Mode, C. J.  
On the distribution of the W-random variable in a general age-dependent branching process 6766
- Model, I. Sh.  
See Lebedev, N. N. 1293
- Modi, V. J.  
Coupled librational motion of an axisymmetric satellite in a circular orbit 4842  
Periodic solutions associated with the gravity-gradient-oriented system: Part I, Analytical and numerical determination 5771  
Librational motion of a damped gravity oriented satellite 9908
- Modjabi, S. S.  
See Robinson, J. R. 9407
- Modrovich, J.  
See Javor, T. 1941
- Moe, J.  
Design of ship structures by means of nonlinear programming techniques 8483
- Moenc, W.  
Holzbau (Building with wood: 4th edition) 5443
- Moffat, R. J.  
See Simpson, R. L. 4612
- Moffatt, C. A.  
An experimental and analytic study of the dynamic properties of the human leg 5879
- Moffatt, W. C.  
Alignment charts for the properties of shock-ionized argon 7249
- Mogami, T.  
On the critical state line proposed by Roscoe et al. 1887
- Mogbo, N. C.  
See Jirsa, J. O. 4435
- Mohanty, B. B.  
See Savage, J. C. 1063
- Mohanty, R.  
On the convergence factor of a Fourier series and a differentiated Fourier series 4998  
On the behavior of a series associated with the conjugate series of a Fourier series 8429
- Mohler, K.  
The creep and relaxation behavior of dry and moist spruce timber under pressure perpendicular to grain 6005
- Moiseenko, V. I.  
Comparison between methods of determining the yield point of thin-walled pipe material 6239  
See also Pochtennyi, E. K. 3578
- Moiseev, N. N.  
Introduction to the dynamics of bodies containing liquids in the weightless state 1269
- Moissis, R.  
See Koumoutsos, N. 9820
- Mok, C. H.  
A cumulative damage concept in rain erosion study 295  
Effective dynamic properties of a fiber-reinforced material and the propagation of sinusoidal waves 4332
- Mokshantsev, V. V.  
Device for measuring dynamic elasticity modulus of the skeleton of porous materials 3581
- Molchanov, A. G.  
See Balabukh, L. I. 768
- Molchanov, E. I.  
On the thermal stability of materials in the case of simultaneous action of cyclic thermal and mechanical stresses 682  
Device for the thermal-fatigue testing of disks 4439  
Stressed state of the disks of gas turbines 4782
- Molchanov, L. N.  
Effect of cyclic hardening and heating due to overloads on the bending deflection of specimens 887
- Molder, S.  
Applicability of hypersonic small-disturbance theory and similitude to internal hypersonic conical flows 9657
- Molian, S.  
Storage and retrieval of descriptions of mechanisms and mechanical devices according to kinematic type 5438
- Molinari, B. P.  
Algebraic solution of matrix linear equations in control theory 7653
- Mollendorf, J.  
See Gebhart, B. 2984

- Moller, F.  
A new electrodynamic vibration table for calibration purposes 225
- Moller, P. S.  
See Felsing, G. W. 1248
- Moller, U.  
Mechanisms of transport from the atmosphere to the Earth's surface 9982
- Mollmann, H.  
The principle of virtual work for a space beam derived by a direct method 1755
- Molnar, L.  
Open pumping in sheeted trenches 6688
- Molodtsov, G. A.  
See Abibov, A. L. 9553
- Moment, R. L.  
A new concept in resistance welding electrode design 7167
- Monakhov, V. N.  
See Antontsev, S. N. 4993
- Monin, A. S.  
Fundamental consequences of the interaction between atmosphere and ocean 9973
- Monk, R. G.  
Thermal relaxation in humid air 6636
- Monneret, J.  
See Vienot, J. -C. 9544
- Monobe, J. A.  
See Higuera, S. 1527
- Monos, E.  
See Szucs, B. 9216
- Monroe, R. E.  
See Cheever, D. L. 1144  
Pattee, H. E. 9622
- Monson, D. J.  
Shock-wave shapes and surface pressures on hemisphere- and cone-cylinders in low-density hypersonic flow including ablation 5513
- Montague, P.  
Experimental behavior of thin-walled cylindrical shells subjected to external pressure 7792
- Montegani, F. J.  
See Dosanjh, D. S. 2362
- Montgomery, R. S.  
The mild wear mechanism of nodular iron 2434  
Effect of load and sliding velocity on the lubricant film thickness for a centrally-loaded conformal slider 4103
- Montgomery, S. R.  
Laminar flow heat transfer for simultaneously developing velocity and temperature profiles in ducts of rectangular cross section 3008
- Moody, F. J.  
A pressure pulse model for two-phase critical flow and sonic velocity 2872
- Moody, G. B.  
Analysis and design of plastic storage tanks 7981
- Moody, M. L.  
See Anderson, T. L. 2664
- Moor, D. I.  
Longitudinal bending moments on models in head seas 5862
- Moore, A. W.  
An experimental investigation of wall-interference effects on dynamic measurements on half-models in ventilated tunnels through the transonic speed range 3830
- Moore, C. D.  
Curve resolver for mixtures of damped sine waves 2525
- Moore, C. F.  
Improved algorithm for direct control 7667
- Moore, D. F.  
On the concept of mean hydraulic radius 2053  
On the separation of the bulk and surface components of rubber friction 4099
- Moore, D. W.  
The flow induced by the transverse motion of a thin disk in its own plane through a contained rapidly rotating viscous liquid 8855  
See also Drazin, P. G. 4544
- Moore, F. K.  
Choking of a subsonic gas flow by thermal radiation 6500
- Moore, G. G.  
Theories and experiments on tube sinking through conical dies 3527
- Moore, J. A.  
Response of flexible panels to turbulent boundary layer excitation 7525
- Moore, J. B.  
"Circle criteria" in the parameter plane 1659  
Optimal and suboptimal performance of stochastic linear tracking systems 1672  
Application of Riccati equations in system engineering 1674
- Moore, J. E.  
Numerical integration in a rigid-body trajectory program 3307
- Moore, K. C.  
Forces on cone cylinders at  $M=3.98$  2097
- Moore, L. S.  
Balancing of large turbine rotors 201
- Moore, P. J.  
Settlement of building on deep compressible soil 1894
- Moore, R. D.  
Thermodynamic effects of cavitation of an 80.6° helical inducer operated in hydrogen 8032  
Effect of blade leading edge thickness on cavitation performance of 80.6° helical inducer in hydrogen 9746
- Moore, R. E.  
See Ainsworth, J. H. 5242
- Moore, R. H.  
Experimental verification of scale factors for parawing opening characteristics with dimensional ratios from 1:1.3 to 1:3 6605
- Moore, R. K.  
See Boles, W. D. 668
- Moore, R. W.  
See Jensen, T. H. 2708
- Moore, W. P., Jr.  
Houston amphitheater roof: Features steel box-sections spanning 195 ft 7144
- Moorhouse, D. C.  
Sand densification by heavy vibratory compactor 5291
- Moo-Young, M.  
See Hirose, T. 1524
- Moran, J. P.  
Diffraction of a plane shock by an analytic blunt body 5520  
Initial stages of axisymmetric shock-on-shock interaction for blunt bodies 7241  
See also Hough, G. R. 9194
- Moravek, J.  
On networks with uniquely determined flow 9245
- Morchen, W.  
Problems of linking wind tunnels to digital process control systems 3827
- Morcos, W. A.  
On the design of oscillating conveyers 2020  
On the design of oscillating conveyers: Case of simultaneous normal and longitudinal oscillations 8623
- Moreau, J. -J.  
The concept of over-potential and the unilateral relations in elastostatics 1707
- Moreau, R.  
A simple solution for the decline of homogeneous turbulence in the presence of a uniform magnetic field with small magnetic Reynolds number 601
- Moreland, C.  
See Sohn, H. Y. 2403
- Moretti, G.  
The choice of a time-dependent technique in gasdynamics 9656  
See also Migdal, D. 2091
- Moretto, O.  
See Ireland, H. O. 9507
- Morfey, C. L.  
A note on the radiation efficiency of acoustic duct modes 4018  
Acoustic properties of openings at low frequencies 9135
- Morgan, E. J.  
Representation of viscosity by translational relaxation in sound waves 4889
- Morgan, J. P.  
A method of prediction of the porosities of high-pressure gaseous fluidization systems 1519
- Morgan, R. C.  
Uniqueness theorem for a multimode surface wave diffraction problem 490
- Morgenthaler, F. R.  
See Rezende, S. M. 5281

- Morgunov, L. N.**  
Probability of suppression of a remote control command in reception of signal during the course of the command 9311
- Mori, K.**  
*See Ishihara, T.* 4673
- Mori, T.**  
*See Yokoo, Y.* 1762
- Mori, Y.**  
Unsteady heat and mass transfer from spheres 4754  
Thermodynamic and electrical properties of combustion gas and its plasma: Part 2, Study of combustion inhibition effect of potassium salt measured by opposed jet diffusion flame 6525  
On float-area-type flowmeters (non-Newtonian fluid) 9749
- Morin, S.**  
Wave coupling across a density discontinuity in a magnetized plasma 598
- Morioka, S.**  
Magnetohydrodynamic shock waves is nonaligned flow 596
- Moriya, Y.**  
*See Nishioka, K.* 8323
- Moriyasu, S.**  
On the anomaly of the sea surface temperature in the East China Sea: Part 2 3209
- Morizane, K.**  
Thermal stress and plastic deformation of thin silicon slices 7553
- Mork-Morkenstein, P.**  
*See Bahr, A.* 6505
- Morkovin, M. V.**  
*See Obremski, H. J.* 2135
- Morland, L. W.**  
Plastic yield and reverse yield waves generated by impulsive electromagnetic radiation 2724  
Existence and uniqueness of solutions to uni-axial elastic-plastic wave interactions 5252  
*See also Chadwick, P.* 6112  
*Lockett, F. J.* 8327
- Morley, L. S. D.**  
A modification of the Rayleigh-Ritz method for stress concentration problems in elastostatics 4223
- Morolev, Yu. R.**  
Verification of Krylov's formula for relaxation time by model calculations on electronic computers 6469
- Morosanov, I. S.**  
*See Galkin, L. M.* 6804
- Moroshkin, M. Ya.**  
Calculation of the resistance factors of pressure jet atomizers 4043
- Morozov, A. I.**  
*See Brushlinskii, K. V.* 3079  
*Brushlinskii, K. V.* 6579
- Morozov, B. A.**  
Fatigue of large components under pulsating compressive stresses 7911  
*See also Piontkovskii, V. M.* 7092
- Morozov, B. M.**  
The deformation of plastics rolling elements in bearings 6288
- Morozov, E. M.**  
An application of the variational principle in problems of crack theory 1922  
A variational principle in the mechanics of rupture 8709  
*See also Goltsev, V. Yu.* 3544
- Morozov, I. I.**  
True vapor content with surface boiling of a liquid moving in ducts 2265
- Morozov, N. F.**  
Existence of a closed solution of a problem of nonlinear vibrations of thin plates 2678
- Morozov, V. H.**  
*See Rachkov, V. I.* 3394
- Morozov, V. M.**  
Some problems of stability of the rotation of a gyrost at about a point fixed on the surface of the rotating Earth 1696  
Stability of the relative equilibrium of a satellite acted upon by gravitational, magnetic, and aerodynamic moments 8296
- Morozov, Yu. I.**  
Thomson scattering taken into account in the relativistic transfer equations for a gray-body and stationary shock wave structure 9010
- Morozova, N. N.**  
Aspects of the transformation matrix in calculating the vibrational characteristics of laminated plates 2729
- Morris, B. P.**  
*See Cocanower, R. D.* 8351
- Morris, D.**  
Design coefficients for flat slab structures with drop panels 5416
- Morris, E. B.**  
Effect of water chemistry and design on corrosion of carbon steel tubed feedwater heaters 5721
- Morris, G. A.**  
Approximate yield surface equations 877  
Elastic-plastic analysis of frameworks 9569
- Morris, G. J.**  
Response of several turbojet air-planes to runway roughness 6602  
The effect of strain rate on the deformational instability of aluminum alloys 5116
- Morris, O. A.**  
Sonic-boom characteristics in the extreme near field of a complex airplane model at Mach numbers of 1.5, 1.8, and 2.5 6631
- Morris, T. F.**  
Flowmeter for space 9750
- Morrison, D.**  
Engineering design: The choice of favorable systems 8811
- Morrison, F.**  
*See Koch, K.-R.* 8358
- Morrison, J. A.**  
Resonant forced motions of a weakly coupled linear and strictly nonlinear oscillator 2675  
Stationary resonant pitching motions of a controlled satellite 3992
- Morrison, J. B.**  
Function of the knee joint in various activities 4979  
The mechanics of the knee joint in relation to normal walking 6737
- Morrison, R. H.**  
Simulation of meteoroid-velocity impact by use of dense projectiles 5284
- Morrison, W. R. B.**  
Structural similarity for fully developed turbulence in smooth tubes 7316
- Morrone, A.**  
Vibrations of stacks supported on steel structures 8616
- Morse, R. L.**  
Bounce model pinch stability 1430
- Morse, T. F.**  
*See Hanson, F. B.* 6642
- Morsztyn, K.**  
Optimal singular control of systems with variable feed back 2529
- Mort, K. W.**  
Large-scale wind-tunnel investigation of an M1-L lifting body with an inflatable and rigid afterbody 2921  
*See also Falarski, M. D.* 6604
- Mortell, M. P.**  
Waves on a spherical shell 1026
- Mortensen, R. E.**  
A globally stable linear attitude regulator 5007
- Morton, A. S.**  
The development of a semi-automatic computer for torsional systems 29
- Morton, B. R.**  
The strength of vortex and swirling core flows 5473
- Morton, J. B.**  
Experimental confirmation of the applicability of the Fokker-Planck equation to a nonlinear oscillator 6102
- Moseley, D. S.**  
Further properties of the nonseparable solutions of the Helmholtz wave equation 9227
- Moseley, P. E.**  
Helmholtz oscillations in pulsating-combustion chambers 571
- Moseley, W. C., Jr.**  
Aerodynamic loads on deployed Canard surfaces and rocket nose section of the Apollo launch escape vehicle 2159  
Wind-tunnel investigation of the aerodynamic pressures on the Apollo launch escape vehicle configuration 7374
- Moses, F.**  
Reliability-based structural design 8763
- Moses, H. L.**  
Response of a fluidic air gauge 5030

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Mosher, D. R.**  
An improved apparatus for measuring anelasticity in metal specimens 4436
- Mosinskis, G.**  
See Cebeci, T. 8095  
Cebeci, T. 8097
- Moskalenko, V. N.**  
Random thermoelastic stresses in plates 9946
- Moskalev, N. D.**  
See Mozhin, V. N. 4322
- Moskvitin, V. V.**  
On one simple method of analysis of complex cyclic loadings 4415  
Variable plasticity and the accumulation of damage 8544
- Mosley, W. H.**  
See Sawko, F. 4489
- Moss, R. W.**  
See Leisure, R. G. 2383
- Mossakowska, Z.**  
On the dynamic model of a dislocation in an elastic medium 5124
- Mote, C. D., Jr.**  
Unsymmetrical, transient heat condition: Rotating disk applications 8986
- Mote, J. D.**  
See Jones, O. E. 7866
- Motomiya, T.**  
See Karashima, S. 692
- Motovilovets, I. A.**  
See Borisyuk, A. I. 6484
- Mott, J. E.**  
Stability of parallel flow between concentric cylinders 4564
- Motter, L. E.**  
See Ochi, M. K. 3221
- Moulis, E. J.**  
See Chaffin, D. B. 4976
- Moursund, D. G.**  
Optimal starting values for the Newton-Raphson calculation of inverses of certain functions 2480
- Mousa, A. M.**  
Approximate analysis of continuous prismatic shells 1777
- Mouty, J.**  
See Lazard, A. 961
- Movchan, A. A.**  
The equations of motion of elastic bodies subjected to large initial stresses 6106
- Movsesov, G. E.**  
See Evdokimov, V. D. 5867
- Movsisyan, L. A.**  
Vibrations of cylindrical shells of arbitrary cross section 9454
- Mow, V. C.**  
See Keller, J. B. 6422
- Mowbray, D. F.**  
Note on stress and strain redistribution in a notched plate specimen during cyclic loading 4437  
See also Slot, T. 5072
- Moyer, H. G.**  
Integrals for impulsive orbit transfer from Noether's theorem 2342
- Moyer, H. M.**  
See Niedzwiecki, R. W. 7474
- Mozayeny, B.**  
Propagation of flood waves in open channels 8140
- Mozharovskii, N. S.**  
Questions of the effect of time factors on the lifetime of metals in the case of cyclic thermal loads 5828
- Mozhin, V. N.**  
Machine for testing the stability of polymer materials during vibrations 4322  
Device for testing rigid plastics for vibration strength 4441
- Mrowiec, M.**  
Limit interaction curves for thin-walled pipeline under internal pressure and bending 2638  
Limit-load curves of a thin-walled pipeline under internal pressure and bending 4496
- Mroz, Z.**  
Axially symmetric plastic flow of soils treated by the graphical method 249  
An attempt to describe the behavior of metals under cyclic loads using a more general work-hardening model 2605  
Limit plasticity approach to some cases of flow of bulk solids 9359  
See also Kwaszczyńska, K. 2600
- Mrugalski, Z.**  
Modified involute profile for clock and watch multiplying gears 3638
- Muchadze, L. G.**  
Approximate solution of pretensioned two-flange tie systems 343
- Mucichescu, D.**  
A generalization of the load concept and its application to the influence line problem 9365
- Muddarris, S. E.**  
See Cherry, B. W. 8011
- Mudrov, V. I.**  
Some experiments on the use of the least-moduli method in processing orbital data 785
- Mueller, H. F.**  
Hydrodynamic forces and moments of streamlined bodies of revolution at large incidence 4953  
On the rotational drag of cylindrical bodies with hemispherical ends 8028
- Mueller, T. J.**  
Supersonic wake flow visualization 9753  
See also Roache, P. J. 9685
- Mueller, W. K.**  
See Florio, P. J., Jr. 2171
- Mufti, A. A.**  
See Mehrotra, B. L. 5377
- Muggeridge, D. B.**  
See Tennyson, R. C. 3428
- Mugridge, B. D.**  
The measurement of spinning acoustic modes generated in an axial flow fan 5789
- Muhlbauer, K. C.**  
Behavior of unsymmetrical-continuous folded plates 7752
- Muhlhaus, L.**  
Achievement of very high pressures in science and engineering: Part 1 2355
- Muhlstein, L., Jr.**  
See Gaspers, P. A., Jr. 8284
- Muir, T. G.**  
Experiments on the acoustic modulation of large-amplitude waves 3136
- Muizemnek, Yu. A.**  
See Burdelov, B. V. 8750
- Mukerjee, T.**  
Film cooling by air injection through a backward-facing annular tangential slot into a supersonic axisymmetric parallel diffuser 4760  
Turbulent shear layer reattachment downstream of a backward-facing step in confined supersonic axisymmetric flow 5578
- Mukhametzhanov, I. A.**  
Sufficient conditions for the absolute stability and dissipativity of nonlinear controlled systems subject to constant action and parametric disturbances 1660
- Mukherjee, A.**  
Flow of non-Newtonian liquid films under the influence of gravity 6299
- Mukherjee, A. K.**  
See Som, P. K. 7956
- Mukherjee, S.**  
Note on the extensional vibration of a thin nonhomogeneous circular plate with a central hole 991
- Mukhopadhyay, A.**  
Disturbances produced in a cylindrically anisotropic medium by variable body force 3492
- Mukhtarov, M. Kh.**  
An experimental study of losses in turbine cascades at low Reynolds numbers 2947  
Determination of the flow coefficient of turbine cascades 7356
- Muki, R.**  
On the diffusion of load from a transverse tension bar into a semi-infinite elastic sheet 1702  
On the diffusion of an axial load from an infinite cylindrical bar embedded in an elastic medium 1708
- Mukoed, A. P.**  
On some complex equations in laminated shells 3412
- Mukoed, N. I.**  
See Protsyshin, B. N. 1392
- Mulhearn, T. O.**  
See Stock, T. A. C. 1069  
Patterson, G. W. 1912  
Bastin, D. 8746
- Mulhern, J. F.**  
A continuum theory of a plastic-elastic fiber-reinforced material 3378
- Mulholland, K. A.**  
See Cummings, A. 4022  
Flockton, S. J. 9941

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Mullaney, G. J.**  
Energy transfer mechanism in shock-tube arc-heated drivers 5623
- Muller, E. A. W.**  
Handbuch der zerstörungsfreien Materialprüfung (Handbook of nondestructive testing) 4456
- Muller, H. G.**  
Wind shears in the meteor zone 3212
- Muller, I.**  
On the entropy inequality 4700
- Muller, K.**  
Twisting moments and plate edge moments for continuous plates supported on two sides 6888
- Muller, L.**  
Acute problems of geomechanics and their theoretical applications 1899
- Muller, P.**  
Fluidized heat exchangers for high temperatures 3009
- Mulley, R.**  
See MacKinnon, R. F. 8939
- Mulligan, J. C.**  
See Ozisik, M. N. 4745
- Munakata, K.-i.**  
Variation of the mechanical and thermal energies across the axially symmetric vortex field of a compressible viscous fluid 7231
- Munday, G.**  
Fluctuating detonation in gases 7462
- Munford, C. M.**  
See Colombo, G. 7505
- Mungur, P.**  
Transmission of sound through an array of scatterers 653
- Munkel, J.**  
See Denzel, P. 9084
- Munro, H. G.**  
See Adams, N. J. I. 7070
- Munro, H. P.**  
How to use simulation techniques to determine optimum manning levels for continuous process plants 36
- Munse, W. H.**  
See Birkemoe, P. C. 6203  
Cannon, J. P. 7073  
Sanders, W. W., Jr. 7977
- Munshukov, D. A.**  
Calculation of nonsteady motion of viscous gas in the exhaust system of an internal combustion engine 4779
- Munteanu, I.**  
See Anastasesco, C. 9588
- Muntenbruch, H.**  
Current status of research on electromagnetically produced unsteady shock waves 4825
- Muntjewerf, J. J.**  
Methodical series experiments on cylindrical bows 9993
- Muntz, E. P.**  
Molecular velocity distribution function measurements in a normal shock wave 4588
- Mura, T.**  
Mathematical theory of dislocations 7735  
See also Pacheco, E. S. 5122
- Murakami, S.**  
Transient creep of circular cylindrical shells 3367  
See also Ohashi, Y. 6032
- Murakami, T.**  
See Saito, H. 6944  
Muraoka, K. 7264
- Murakami, Y.**  
Residual stresses due to the milling operation 5316  
See also Ito, S. 7922  
Iwasaki, I. 7931
- Muralidhar, D.**  
See Rajaratnam, N. 1162
- Muramatsu, M.**  
See Ohte, S. 4418
- Muraoka, K.**  
Shock wave structure in a single component monatomic gas 2886  
Kinetic-theoretical studies of the shock wave structure 7264  
See also Ikui, T. 4834
- Murari, K.**  
A queueing problem with correlated arrivals and general service time distribution 9246
- Murasaki, T.**  
See Kinoshita, T. 8862
- Murata, T.**  
See Oka, S. 518
- Muratov, L. V.**  
Tensiometric attachment for measuring transverse deformation (exchange of experience) 1964
- Muratov, V. I.**  
See Fedorchenko, V. D. 606
- Murayama, T.**  
An experimental study on the performance of a multifuel engine: Part 1, Applied to a pre-combustion chamber engine; Part 2, Effect of pilot injection of fuel 5727
- Murdoch, J. B.**  
Network theory 8458
- Murgai, M. P.**  
See Varma, R. K. 9008
- Murman, E. M.**  
Experimental studies of a laminar hypersonic cone wake 5511
- Muro, H.**  
An X-ray study of grinding damage 5317
- Muromtsev, Yu. L.**  
Estimates of reliability criteria by the method of stochastic approximation 1683
- Murota, T.**  
A theoretical analysis of circular cylinder in axial compression with friction 131
- Murotsu, Y.**  
Optimal control of multivariable systems subjected to random disturbances 5047
- Murphree, D. L.**  
See Johnson, B. H. 7495
- Murphy, B. L.**  
Charge separation effects in the Chapman-Ferraro-Rosenbluth cold plasma sheath model 3080
- Murphy, G. J.**  
See Rugh, W. J. 1669
- Murphy, J. D.**  
See Watson, E. C. 1211
- Murphy, N. R.**  
Effects of test techniques on wheel performance 4364
- Murr, L. E.**  
See Foltz, J. V. 9128
- Murray, D. W.**  
Finite-element postbuckling analysis of thin elastic plates 2667
- Murrill, P. W.**  
See Moore, C. F. 7667
- Murry, W. E.**  
Biomedical sciences instrumentation: Vol. 2 1591
- Murthy, D. N. P.**  
A new model for the control mechanism of the human eye 7611
- Murthy, K. K.**  
On the design of quadratic weirs 1161
- Murthy, M. V. V.**  
Stresses at the intersection of two cylindrical shells of equal diameter 927  
See also Basava Raju, B. 156
- Murthy, S. N. B.**  
See Pasko, W. 6546
- Murthy, V. K.**  
See Lientz, B. P. 3295
- Murty, I. S.**  
On an asymptotic method of Krylov-Bogoliubov for overdamped nonlinear systems 5208
- Murty, I. S. N.**  
Method of variation of parameters for overdamped nonlinear systems 1646
- Murty, M. K. S.**  
See Neogy, J. 6945
- Murty, S. S. R.**  
Electron temperature distribution across a shock wave in a partially ionized gas 3067
- Murty, T. S.**  
See Kaiser, J. A. C. 3782
- Murugesan, K.**  
Pure design method for airfoils in cascade 4656
- Murzewski, J.**  
Assessment of error in computing load-carrying capacity of reinforced concrete member 1987  
Probability distribution of microstresses in elastic medium 4218  
The stability problem of a stiffening ring of an elastic-plastic cylinder subject to bending 4276
- Musa, S. A.**  
Nonlinear oscillations in systems with restricted nonlinearities 982  
Bounds on the motion of objects ejected from an orbiting body 4841

- Musaelyan, Sh. A.**  
Means of using data on cloud-cover obtained from meteorological satellites 4939
- Musatov, L. G.**  
See Vardanyan, G. S. 7934
- Musen, P.**  
Planetary effects in the motion of natural satellites 2343  
A discussion of Hill's method of secular perturbations and its application to the determination of the zero-rank effects in nonsingular vectorial elements of a planetary motion 7507
- Musgrove, P. J.**  
The influence of boundary-layer growth on shock tube test times 2193
- Mushtari, Kh. M.**  
Basic relations of the theory of elastic three-layer shells of variable rigidity 6050
- Musil, D. J.**  
Computer modeling of hailstone growth in feeder clouds 9986
- Musinskaia, A.**  
On the periodic solutions of a nonlinear two-degree-of-freedom system 987
- Muspratt, M. A.**  
Strain measurement in reinforced concrete slabs 1956  
Statistical approach in relaxation testing of alloy steel bar 7941  
Behavior of simply supported slabs 9580
- Muster, D.**  
See Crenwelge, O. E., Jr. 994  
Mitchell, W. S. 1485
- Muthiyalu, N.**  
See Paul, H. S. 861  
Paul, H. S. 988
- Muthuswamy, V. P.**  
See Das, S. C. 1086
- Myachenkov, V. I.**  
Local stability of cylindrical shells during heating 690
- Myall, J. O.**  
Interaction between a pair of two-dimensional sails for the case of smoothly attached flow 1246
- Myasnikov, L. L.**  
Infrasonic cues for the automatic recognition of speech sounds 4867
- Myers, D. E.**  
Box girder model studies 7071
- Myers, G. E.**  
Effect of container capacitance on thermal transients in plane walls, cylinders, and spheres 2211
- Myklestad, O.**  
An analysis of transient flow of heat and moisture during drying of granular beds 1386
- Mylin, D. C.**  
See Kahl, G. D. 4696
- Mylonas, C.**  
Restoration of ductility of prestrained steel by heat treatment at 700 to 1150°F 4446
- Mysak, L. A.**  
On the generation of double Kelvin waves 3204
- Myshkov, S. K.**  
Optimal stability of programmed motion 7679  
Solution of the problem of analytical construction of regulators 8482
- Myshlevskii, L. M.**  
Simplified calculation of the vacuum at a pump inlet 9744
- Myszkowski, J.**  
Elastic limit load of a thin steel plate and its experimental investigation 922
- Myunster, N. S.**  
Coefficient of useful work of a transmission with two members performing translatory motion 8807
- Mzyk, E.**  
The effect of wall curvature on the hydrodynamic stability of a laminar boundary layer 8903
- N**
- Na, T. Y.**  
An initial value method for the solution of MHD boundary-layer equations 9064  
See also Cebeci, T. 2225  
Cebeci, T. 8095
- Nabarro, F. R. N.**  
Theory of crystal dislocations 893
- Naboko, I. M.**  
Experimental studies of the parameters of the flow behind a shock wave moving in relaxing gas 6352
- Nachlinger, R. R.**  
On approximate constitutive equations in nonlinear viscoelasticity 3366  
Bending of a beam made of a fiber-reinforced viscoelastic material 4250
- Nadolski, M. E.**  
Architectural damage to residential structures from seismic disturbances 3625
- Nagaev, R. F.**  
Synchronization of finite-dimensional "force" generators 4523
- Nagai, M.**  
See Ikui, T. 3833
- Nagamatsu, A.**  
See Murota, T. 131
- Nagano, S.**  
Nonlinear analysis of rotating stall 8160
- Nagao, F.**  
Valve timing control by a hydraulic tappet with a leak hole 4776
- Nagaraj, V. T.**  
See Johns, D. J. 7815
- Nagasawa, M.**  
See Endo, H. 8021
- Nagel, A. L.**  
Analysis of the unit Reynolds number effect in hypersonic flat plate boundary layer transition 7304
- Nagel, D. C.**  
See Kerrick, J. S. 1598
- Nagendra, H. R.**  
Laminar free convection from vertical cylinders with uniform heat flux 9799
- Naghdi, A. K.**  
Bending of a simply supported circular cylindrical shell subjected to uniform line load along a generator 4255  
An approximate solution to the problem of a circular cylindrical shell with a circular hole subjected to an arbitrary self-equilibrated edge loading 6901
- Nahdi, P. M.**  
See Crochet, M. J. 93  
Crochet, M. J. 5100  
Green, A. E. 5987
- Nagrath, I. J.**  
See Agarwal, S. K. 8484
- Nagumo, J.-i.**  
See Noda, A. 5053
- Nagy, S.**  
Determination of the optimum profile of I-beams 334
- Nagyvati, B.**  
See Kezdi, A. 246  
Kezdi, A. 4367
- Nahi, N. E.**  
Estimation theory and applications 14
- Naiditch, S.**  
Analysis of metal ammonia solutions as heat transfer fluids to -185 deg C 1341
- Nair, K. A.**  
See Mode, C. J. 6766
- Naishtut, Iu. S.**  
On the analysis of shells with holes 8573
- Najder, J.**  
The effect of vertical loading on the value of the coefficient of sandy soils pressure at rest 3516
- Nakabayashi, K.**  
See Yamada, Y. 5474  
Yamada, Y. 7201
- Nakadan, Y.**  
See Takao, K. 9116
- Nakafuku, C.**  
See Minato, K. 8381
- Nakagaki, K.**  
See Endo, K. 289
- Nakagawa, K.**  
See Murotsu, Y. 5047
- Nakai, M.**  
See Sasaki, T. 4107
- Nakajima, K.**  
Formations of a built-up edge during cutting 1909  
Structural change of the surface layer of low carbon steels due to abrading 4098
- Nakajima, Y.**  
See Minagawa, S. 3391
- Nakamizo, K.**  
Absolute measurements of deep spherical surfaces and microscope objectives 3231

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Nakamura, A.**  
Generation of sound pulses with finite amplitude in free air 2384
- Nakamura, H.**  
Test results of wheel-axle fatigue testing machine: Part 1, Fatigue test under constant load 6195
- Nakamura, J.**  
*See Ohta, M.* 3147
- Nakamura, K.**  
Sequential vector space description of discrete control system 6793
- Nakamura, M.**  
*See Taniguchi, T.* 791  
*See Kuroiwa, S.* 2046
- Nakamura, T.**  
*See Yokoo, Y.* 1762
- Nakamura, Y.**  
Head waves from a transition layer 715  
Suppression of two-stream instability by beam modulation 9872  
Vortex excitation of a circular cylinder treated as a binary flutter 9897  
*See also Kojima, S.* 9070
- Nakao, Y.**  
*See Ikawa, H.* 1147
- Nakashima, M.**  
*See Endo, K.* 8386
- Nakata, K.**  
*See Tsuboi, Y.* 6899
- Nakatani, H.**  
Experimental investigations on hovering performance of some lifting mechanisms of an air cushion 9105
- Nakayama, W.**  
Thermal instability in plane Poiseuille flow 7293
- Nakazawa, H.**  
Effect of mean stress on fatigue crack initiation and propagation 5333  
Effects of material defects on fatigue strength of cast steel 9530
- Nakra, B. C.**  
Vibration response of a sandwich beam with nonlinear viscoelastic core 8606
- Namba, M.**  
Theory of transonic shear flow past a thin airfoil 2873
- Namba, Y.**  
Grinding performance of abrasive belts 6178
- Nambiar, P. N.**  
*See Reddy, A. S.* 8670
- Nambudiripad, K. B. M.**  
*See Chudobiak, J. M.* 7716
- Nan, N.**  
*See Ting, T. C. T.* 1871
- Nanda, K. D.**  
*See Bhutani, O. P.* 3963
- Nandakumaran, P.**  
*See Narain, J.* 5307
- Nandapurkar, S. S.**  
*See Srinivasan, P. S.* 6507
- Nandi, S.**  
Note on steady flow of viscous compressible fluid between two infinite coaxial cylinders 9650
- Nangia, R. K.**  
A theoretical investigation for delta wings with leading-edge separation at low speeds 7324
- Narain, J.**  
Model study of passive pressure in sand 5307
- Narasimha, R.**  
*See Ananthasayanam, M. R.* 436  
*See Deshpande, S. M.* 525
- Narasimhan, M. N. L.**  
Generalized measures of deformation-rates in viscoelasticity and their applications to rectilinear and simple shearing flows 9344
- Narasimhan, V.**  
*See Bansal, G. D.* 9602
- Narayana, C. L.**  
Three-dimensional periodic boundary layers 8909
- Narayanan, S.**  
Suspension of solids by bubble agitation 5834
- Narayana Rao, N. N.**  
Thermodynamic advantages of charge stratification in spark ignition engines 1415
- Narayanaswamy, O. S.**  
Calculation of residual stresses in glass 9147
- Narbut, A. N.**  
Characteristics of counter-rotation conditions of single-stage torque converters 7367
- Nardini, G.**  
*See Nencetti, G.* 7209
- Narendra, K. S.**  
Stability analysis of nonlinear and time-varying discrete systems 5928  
*See also Taylor, J. H.* 7620
- Nariboli, G. A.**  
Wave propagation in magnetogas-dynamics 3932  
Discontinuities in a relativistic gas 4208  
Asymptotic nature of extensional waves in an infinite elastic plate 8650
- Nasar, S. A.**  
Electromagnetic energy conversion devices and systems 8279
- Nash, G. E.**  
Mechanical aspects of the dynamic tear test 4450  
An analysis of the forces and bending moments generated during the notched beam impact test 8742
- Nash, J. F.**  
A discussion of two-dimensional turbulent base flows 1186  
The calculation of three-dimensional turbulent boundary layers in incompressible flow 6383
- Nash, R. W.**  
*See Schwaneke, A. E.* 5373
- Nash, W. A.**  
Bending of thin conical shells subject to arbitrary edge loads 5158
- Nashif, A. D.**  
A resonant beam tuned damping device 2702
- Nash-Webber, J. L.**  
*See Oates, G. C.* 417
- Nasim, C.**  
Some results relating the behavior of Fourier transforms near the origin and at infinity 4149
- Nasir, G. A.**  
*See McManus, P. F.* 1993
- Nassif, M. H.**  
Acoustical analysis applied to internal combustion engine exhaust systems of conical form 3046
- Nastase, A.**  
On the minimum drag problem of the trapezoidal wing of symmetrical thickness in supersonic flow 2917  
The thin delta wing with variable geometry, optimum for two supersonic cruising speeds 6407
- Natarajan, M.**  
*See Lew, H. S.* 1994
- Nath, B.**  
Hydrodynamic pressures on high dams due to vertical earthquake motions 405
- Natterer, F.**  
Inclusive bounds for large eigenvalues of ordinary second- and fourth-order differential equations 1606
- Naudascher, E.**  
Unified analysis of grid turbulence 8112
- Naugolnikova, L. M.**  
*See Polyakov, S. N.* 8739
- Navarro Crespo, A.**  
Development of three-dimensional pressure-distribution functions for lifting surfaces with trailing-edge controls based on the integral equation for subsonic flow 1249
- Navoznov, O. I.**  
Mixing of co-current gas jets 2080
- Navrotskii, I. V.**  
*See Makukhin, S. I.* 7940
- Nawy, E. G.**  
Crack width control in reinforced concrete two-way slabs 7963
- Nayfeh, A.**  
Response time of impulsively loaded structures 1883
- Nayfeh, A. H.**  
On the nonlinear Lamb-Taylor instability 4648  
On liquid driver shock tubes 4692  
Effect of angle-of-attack oscillation on the stability of liquid films 5605  
Finite amplitude surface waves in a liquid layer 9726
- Nazarenko, G. D.**  
*See Pivskii, I. M.* 3878
- Nazarenko, G. T.**  
Reduction of the fatigue limit of deformed steel 290  
Effect of torsional plastic deformation on the resistance of steel to fatigue 9539

- Nazarov, A. G.**  
A case of extended similarity of solid deformable bodies which approximates simple similarity 2767
- Nazarov, G. I.**  
One-type formulation of the general integrals for the equations of hydrodynamics of elliptic and hyperbolic type 4578
- Nazarov, N. I.**  
See Ermakov, A. I. 6584
- Naziev, E. H.**  
On cyclic integrals of the equations of motion of mechanical systems 9317
- Nealy, D. A.**  
Comment on an investigation of porous wall cooling 3185
- Nebesnov, V. I.**  
Contribution to the dynamics of a propulsion system with two degrees of freedom 4193
- Nedavnyi, V. S.**  
On stability of relay systems of automatic control with dead zone 8469
- Nedoshivin, P. E.**  
See Goltsev, V. Yu. 3544
- Needham, T. N.**  
See Yao, S. T. 9217
- Negi, J. G.**  
Symmetric matrix method for rapid gravity interpretation 1539
- Negishi, K.**  
Measurement of total hemispherical emissivity 9818
- Negróni, F.**  
On the plastic tensile instability criteria 5115
- Neiburger, M.**  
See Steinberger, E. H. 6329
- Neidhardt, Ch.**  
The prevention of cavitation in throttling elements in hydraulic systems using oil 6316
- Neiland, V. Ya.**  
Thermal state of a vehicle at re-entry into the Earth's atmosphere at velocities near 15 km/sec 3996  
Asymptotic solutions of Navier-Stokes equations in the regions with large local turbulence 5571
- Neilson, J. E.**  
See Rotem, Z. 6295
- Neilson, J. H.**  
Erosion by a stream of solid particles 6724
- Neiman, A. D.**  
Experimental methods for the adjustment of automatic control systems 1665
- Neis, V. V.**  
See Chudobiak, J. M. 7716
- Neklutin, C. N.**  
Mechanisms and cams for automatic machines: Influence of dynamic forces on high-speed machine components 369
- Neklyudov, L. V.**  
See Shapiro, A. S. 3800
- Nelissen, L. J. M.**  
The influence of stirrups and deformed bars on crack formation in reinforced concrete beams under bending 5324  
Uniaxial and biaxial testing of concrete 7124
- Nelms, W. P., Jr.**  
An experimental and theoretical investigation of a symmetrical and a cambered delta wing configuration at Mach numbers from 2.0 to 10.7 484
- Nelson, E.**  
See Larson, M. B. 533
- Nelson, F. C.**  
See Nokes, D. S. 1007  
See Korites, B. J. 6094
- Nelson, H. F.**  
Structure of shock waves with non-equilibrium radiation and ionization 5521
- Nelson, L. A.**  
Facility for simulation of rocket plumes in a space environment 4601
- Nelson, M. E.**  
The effect of axial heat conduction on the thermal development of a heat-generating fluid 8987
- Nelson, R. B.**  
Effects of gravity on radially supported telescopic mirrors 9378
- Nemat-Nasser, S.**  
Effect of warping rigidity on stability of a bar under eccentric follower force 2665  
See also Chern, J.-M. 883  
Chern, J.-M. 5135
- Nemchinov, I. V.**  
See Krol, V. M. 5523
- Nemeth, Z. N.**  
Dynamic behavior of air lubricated pivoted-pad journal bearing-rotor system: Part I, Effects of mount stiffness and damping 5875
- Nemirovsky, Y. V.**  
Dynamic behavior of cylindrical shells strengthened with ring ribs: Part I, Infinitely long shell 1840  
Limit analysis of stiffened axisymmetric shells 5177
- Nemish, Yu. N.**  
On the analogy between S. P. Timoshenko's bending theory for plates and plane problems of the moment theory of elasticity 8508
- Nemkov, R. G.**  
Effective profile of the Mach line in a relaxing gas 3712  
See also Naboko, I. M. 6352
- Nemtsov, V. B.**  
See Vikhrenko, V. S. 2594
- Nemura, A. A.**  
Upravlenie protsessom vytyagivaniya (Control of the drawing process) 9289
- Nemzer, V. G.**  
See Rastorguev, Yu. L. 7452
- Nenasteva, V. M.**  
See Zipalova, V. F. 969
- Nencetti, G.**  
Investigations on two-phase downward flow in vertical pipes 7209
- Nenkov, K. A.**  
See Leyarovski, E. I. 6874
- Neogi, P. K.**  
Concrete-filled tubular steel columns under eccentric loading 3599
- Neogy, J.**  
Determination of fundamental natural frequencies of axially loaded columns and frames 6945
- Neporent, B. S.**  
Stratospheric humidity as determined from the absorption of solar radiation by a resolved spectral structure of water vapor 1553
- Neppiras, E. A.**  
Subharmonic and other low-frequency emission from bubbles in sound-irradiated liquids 3175
- Nerpin, S. V.**  
Kinetics of moisture evaporation from capillary-porous substances 1531
- Nesterikhin, Yu. E.**  
Metody skorostnykh izmerenii v gasodinamike i fizike plazmy (Rapid measurement methods in gas dynamics and plasma physics) 616
- Nesterova, A. I.**  
See Savin, L. S. 8012
- Nestler, D. E.**  
Heat transfer to steps and cavities in hypersonic turbulent flow 8206  
See also Laganelli, A. L. 6511
- Neu, H.-J.**  
See Mathieu, P. 1882
- Neu, J. T.**  
Theoretical and practical implication of the bidirectional reflectance of spacecraft surfaces 549
- Neubauer, W. G.**  
Pulsed circumferential waves on aluminum cylinders in water 660
- Neuber, H.**  
The fundamental equations of linear stationary thermoelasticity in Cosserat continua 671  
Plates with notches or holes and force and dislocation singularities 5186  
The flat bar with optimum change of cross-section under tensile load 7696  
Anisotropic nonlinear stress-strain laws and yield conditions 8528
- Neubert, V. H.**  
See Patel, J. S. 8613
- Neuenfeldt, D.**  
Mathematical method for compensating dynamic measuring errors 9271
- Neufeld, J.**  
Revised formulation of the kinetic plasma theory 8274
- Nevecherenko, E. G.**  
See Sliva, O. K. 5226
- Nevill, G. E., Jr.**  
See Dumesnil, C. E. 9413

- Neville, A. M.  
See Sheikh, M. A. 5404  
Gopalakrishnan, K. S. 6251  
Gopalakrishnan, K. S. 7717
- Nevskii, A. S.  
On an experimental method of determining the total radiation extinction coefficient of furnace gases 2251  
Some problems in the theory of radiant heat transfer 3870
- Nevskii, Yu. E.  
Amplitude-frequency characteristic of ultrasonic depletion-layer transducers 9940
- Newcombe, C. B.  
See Workman, D. R. 6985
- Newcombe, G.  
See Bradley, J. N. 8815
- Newell, A. C.  
Finite bandwidth, finite amplitude convection 7417
- Newell, P. H., Jr.  
Analysis of combined free and forced convection for fully developed laminar flow in horizontal tubes 7416
- Newman, A. K.  
New Lyapunov function for nonlinear time-varying systems 2499
- Newman, B. G.  
The prediction of turbulent jets and wall jets 4624  
See also Gartshore, I. S. 8865
- Newman, M.  
Nonzero free-free frequencies of structures idealized by matrix methods 5206
- Newman, N.  
See Kirwan, A. D., Jr. 4533
- Newmann, M. M.  
Optimal and suboptimal control using an observer when some of the state variables are not measurable 2543
- Newton, A. A.  
See Bodin, H. A. B. 3953
- Newton, D. A.  
Boundary value problems in thin shallow shells of arbitrary planform 932
- Newton, R. E.  
See Carson, W. G. 180
- Nezelenov, Yu. V.  
Increasing the efficiency of i.c.e. oil purifiers 6681
- Nezval, J.  
The stationary flexural (axial) vibrations of a circular plate of polytropic profile 206
- Ngo, D.  
See Ramirez, H. D. 3390  
Scordelis, A. C. 9379
- Nguen Chong Giep  
See Oleinik, N. V. 8720
- Nguyen, V. N.  
Optimal longitude rendezvous of a geostationary satellite 5781
- Nhiem, T.-V.  
Equation for the limit bearing capacity of a foundation on soil surface, eccentrically and obliquely loaded, by the method of the minimal triangular wedge 4350
- Niazi, M.  
Use of source arrays in studies of regional structure 7561
- Nibbering, J. J. W.  
Permissible stresses and their limitations 9603  
See also van den Blink, W. P. 4447
- Nica, Al.  
Note on heat dissipation in journal bearings 10012
- NiCastro, J.  
Similitude for shock-wave initiated flux compression 2320
- Nichiporovich, A. A.  
Shear strength of coarse plastic soils 6127  
Horizontal displacements and settlements of shells of rockfill dams with central core during reservoir filling 6151
- Nicholas, O. P.  
See Rose, R. 6410
- Nicholl, C. I. H.  
Some dynamical effects of heat on a turbulent boundary layer 6375
- Nicholls, J. A.  
See Ragland, K. W. 1469  
Ranger, A. A. 9958
- Nichols, F. A.  
Theory of the creep of Zircaloy during neutron irradiation 2590
- Nichols, L. D.  
See Bishop, A. R. 3110
- Nichols, R. W.  
Practical fracture mechanics for structural steel, Proceedings of the symposium on fracture toughness concepts for weldable structural steel, Risley, Apr., 1969 9520
- Nicholson, H.  
Integrated control of a nonlinear boiler model 4196
- Nickell, R. E.  
Approximate solutions in linear, coupled thermoelasticity 4899
- Nickerson, E. C.  
Upper bounds on the torque in cylindrical Couette flow 7202
- Nickola, W. E.  
Construction of complex photoelastic models using thin molded-epoxy sheets 7919
- Nicol, A. A.  
Boiling heat transfer from a rotating horizontal cylinder 2999  
Condensation of steam on a rotating vertical cylinder 9821
- Nicolae, V.  
See Misicu, M. 5163
- Nicolas, J.  
On the determination of the sum of principal stresses by means of holographic interferometry 1963
- Nicoll, W. B.  
A modified entrainment theory for the prediction of turbulent boundary layer growth in adverse pressure gradients 7291
- Niedzwiecki, R. W.  
Preliminary tests of a simplified modular turbojet combustor 6532  
Performance of a 48-module swirl-can turbojet combustor segment at high temperatures using ASTM-A1 fuel 7474  
Combustion stability of single swirl-can combustor modules using ASTM-A1 liquid fuel 7475
- Nielsen, H.  
See Lavan, Z. 8864
- Nielsen, M. P.  
On the stability theory for continuous systems 955  
Om jernbetonskivers styrke (Strength of reinforced concrete) 6249
- Nielsen, R., Jr.  
See Pilkey, W. D. 1002
- Niemann, R. A.  
See Leondes, C. T. 7685
- Niemierko, A.  
Measurements of the components of the tensor of stresses occurring in a fine-grained sand 7021
- Nieske, F. W.  
See Gahimer, F. H. 9563
- Niesytto, J.  
Self-excited vibrations of an axially symmetric shell of finite length subjected to the action of internal supersonic flow 5761
- Nigam, S. D.  
See Vijaya Lakshmi, S. 2064  
Srinivasan, T. P. 5077  
Kaura, N. N. 6314
- Nigam, S. P.  
See Belgaumkar, B. M. 1006
- Nigro, N. J.  
Wave propagation in anisotropic bars of rectangular cross section: Part 2, Flexural wave propagation 1880
- Nigul, U.  
Regions of effective application of the methods of three-dimensional and two-dimensional analysis of transient stress waves in shells and plates 1022
- Nigul, U. K.  
Comparison of results of an analysis of transient waves in shells and plates by elasticity theory and approximate theories 6991  
See also Kutser, M. E. 8652
- Nihoul, J. C. J.  
On a canonical form of the Navier-Stokes equations 6331  
On a principle of minimum Reynolds number and the Malkus theory of turbulent channel flow 6400  
Nonlinear Couette flows with temperature-dependent viscosity 7198  
Cours moderne de mecanique rationnelle (Modern course in rational mechanics) 8489

- Niiler, P. P.  
Note on the swimming deceleration of a dolphin 8835
- Nijlisk, Kh. Yu.  
Atmospheric thermal radiation in partly cloudy conditions 6707
- Nijsing, R.  
Analysis of liquid metal heat transfer in assemblies of closely spaced fuel rods 9811
- Nikiforuk, P. N.  
Detailed analysis of a two-stage four-way electrohydraulic flow-control valve 4186
- Nikitenko, N. I.  
Numerical integration of the equation of heat propagation for variable physical characteristics 1345
- Nikitin, A. K.  
Nonlinear problem of a spherical suspension 5482
- Nikitin, S. A.  
See Sokolov, V. B. 8292
- Nikitin, V. I.  
Temperature dependence of the effect of liquid metals on the long-time strength of solid metals 1099  
Measuring the creep rate of a metal as a consequence of the absorbent action of a liquid metal medium 9352
- Nikitin, V. S.  
Thermal conductivity of dispersed material in various gases at elevated temperatures 2277
- Nikitina, V. N.  
See Ivanov, A. P. 713
- Nikkanen, J. P.  
See Mikolajczak, A. A. 8952
- Nikolaenko, N. A.  
Veroyatnosnye metody dinamicheskogo rascheta mashinostroitelnykh konstruktii (Probability methods in the investigation of dynamic behavior of structures) 7350
- Nikolaev, G. N.  
Nonequilibrium expansion of air in supersonic nozzles 8889
- Nikolaev, I. K.  
See Torner, R. V. 2044
- Nikolaev, V. G.  
Device for determination of recovery rate of high-elastic deformations in plastics 7741
- Nikolaev, V. M.  
See Sherstyuk, A. N. 7295
- Nikolaev, V. V.  
See Vinokurov, V. A. 4463
- Nikolaevskii, V. N.  
On the formulation of the defining equations for a plane flow of a continuous medium with dry friction 2604  
Asymmetric fluid mechanics and an averaged description of turbulent flow 9693
- Nikolayev, A. V.  
A contribution to the theory of numerical representation of seismic signals 4918
- Nikolin, E. S.  
Effect of liquid low-melting metals on the fatigue strength of carbon steel in relation to the stress frequency 2757
- Nikolskii, A. A.  
On a general class of uniform motions of continuous media and rarefied gases 7268
- Nikolskii, L. N.  
Method of determining the optimum parameters of shock absorbers 2706
- Nilsson, C. S.  
Attempts to measure micrometeoroid flux on the OGO 2 and OGO 4 satellites 9166
- Ninham, B. W.  
Kinetic theory of sound for a polyatomic gas 9939
- Niollet, M.  
See Brossard, J. 8230
- Niordson, F. I.  
Theory of thin shells: Second Symposium, Copenhagen, Sept. 5-9, 1967 4252
- Nipper, M. J.  
See Bertin, J. J. 9028
- Nishi, A.  
See Sawado, T. 9848
- Nishida, M.  
See Kamimoto, G. 5524  
See Kamimoto, G. 9080
- Nishigaki, K.  
Turbulence dependence of vaporous cavitation in oxygen jet 8117
- Nishihara, H.  
A study on plasma diffusion in a uniform magnetic field 610
- Nishikawa, T.  
See Kiritani, M. 5132
- Nishiki, T.  
Falling liquid film thickness in a gas-liquid wetted-wall tower 8047  
Structural design innovations in Japanese National Railways 8793
- Nishimoto, T. S.  
See Cappelli, A. P. 4265
- Nishino, Y.  
See Emura, K. 4923
- Nishioka, K.  
Fundamental investigations of fretting fatigue: Part 5, The effect of relative slip amplitude 1933  
Fundamental investigations of fretting fatigue: Part 2, Fretting fatigue testing machine and some test results 5340  
Fundamental investigations of fretting fatigue: Part 2, Fretting fatigue testing machine and some test results; Part 3, Some phenomena and mechanisms of surface cracks 7061  
Fundamental investigations of fretting fatigue: Part 4, The effect of mean stress 7062  
The strength of railroad wheels: Part 1, Thermal stresses in disk wheels 8323
- Nishitani, T.  
See Ohashi, Y. 7077
- Nishiura, T.  
See Cesari, L. 8477
- Nishiwaki, K.  
See Nagao, F. 4776
- Nishiwaki, N.  
See Kato, H. 541  
See Mori, Y. 9749
- Nishiyama, T.  
Finite cavity flow of axial symmetry 4557  
Thin airfoil section characteristics in shear flow 4628
- Nishiyama, U.  
See Habara, H. 6170
- Nisida, M.  
Application of interferometric method to three-dimensional stress analysis 4426
- Nisitani, H.  
Fatigue damage of electropolished carbon steel specimens with a shallow groove under two stress levels 7063
- Nisnevich, L. B.  
Adaptive search for a data processing sequence 5051
- Nissen, P.  
Bending moments in tension members and stressed wires subject to concentrated transversal loads 2616
- Nissimoff, H.  
The supporting forces of uniformly loaded rectangular plates by plastic as well as elastic theory 6034
- Nistratov, N. I.  
See Konvalov, L. V. 3547
- Nitsche, J. C. C.  
Variational problems with inequalities as boundary conditions or how to fashion a cheap hat for Giacometti's brother 7631
- Nitta, T.  
Statistical study of tropospheric wave disturbances in the tropical Pacific region 9179
- Nivas, Y.  
Limitation of Griffith flaws in glass-matrix composites 7055
- Niwa, Y.  
Some considerations for measurements of stresses in rock masses by the use of photoelastic gages 6165  
Stresses around a tunnel with an arbitrary cross section excavated in anisotropic elastic ground 8783
- Nix, G. H.  
See Vachon, R. I. 1364
- Nix, W. D.  
Effect of internal stresses on the apparent stress dependence of dislocation velocities 894  
See also Lee, F. F. M. 6871  
Lee, F. F. M. 9360
- Nixdorff, K.  
See Bass, D. 8588

- N-Nagy, F. L.  
Solid state piezo-resonant crystal motor operating on electrostatic principle 5031
- Noack, D.  
Studies on the dynamic fatigue behavior of wood under alternating tensile load: Part 2, Dynamic fatigue behavior of beechwood under constant conditions of temperature and moisture content 6199
- Noble, B.  
Exact solution of certain dual series for indentation and inclusion problems 5075
- Noble, W. G.  
See Atherley, G. R. C. 1602
- Noda, A.  
A learning method for system identification 5053
- Nogi, T.  
Difference methods for the piston problem 8071
- Nokes, D. S.  
Constrained layer damping with partial coverage 1007
- Nolle, H.  
Ranges of motion transfer by the R-G-G-R linkage 5437
- Nomura, Y.  
Dynamics of side type pressure control valve in air brake system: Theoretical analysis 808
- Nonaka, T.  
Some interaction effects in a problem of plastic beam dynamics: Part 3, Experimental study 232
- Nordberg, H.  
A microfractographic investigation of fatigue crack propagation in a cast steel and some aluminum alloys 1938
- Nordby, G. M.  
See Harris, B. J. 941
- Nordo, J.  
See Gjessing, D. T. 1548
- Norey, P. W.  
See Michael, D. H. 4911
- Noritsyn, I. A.  
Determining the angle of stock spring-back in bending 6169
- Norman, W.  
Effect of real gas properties on the base pressure of a blunt-nose vehicle 6416
- Norminton, E. J.  
Diffusion and convection of heat in the potential flow past a circular cylinder 9793
- Norokuma, T.  
See Nakamizo, K. 3231
- Norovskii, A. A.  
Forces in chain drives due to technological factors 9608
- Norrand, K.  
See Andersson, G. 4308
- Norris, T. D.  
See Horn, G. 3913
- Norton, D. J.  
Generalized one-dimensional, compound compressible nozzle flow 9667
- Norton, H. T., Jr.  
See Capone, F. J. 4784
- Norwood, F. R.  
Wave propagation in the generalized dynamical theory of thermoelasticity 2393  
Exact transient response of an elastic half space loaded over a rectangular region of its surface 4327  
See also Percival, C. M. 8804
- Norwood, R. E.  
Effects of bending stiffness in magnetic tape 905
- Nosachev, L. V.  
See Skvortsov, V. V. 2114  
Skvortsov, V. V. 4828
- Nosachev, M. S.  
See Protskii, N. E. 4459
- Noskov, A. I.  
Study of the dynamics of a steam temperature automatic control system 806
- Notbohm, K.  
See Reichardt, W. 3146
- Notzold, F.  
On the calculation of a bridge deck supported on two longitudinal spars in the absence of transverse spars 4492  
See also Bretthauer, G. 2626  
Bretthauer, G. 7146
- Novak, G. E.  
A three-dimensional finite difference solution for the thermal stresses in railcar wheels 2016
- Novak, M.  
Aeroelastic galloping of prismatic bodies 620  
On the lift forces on a cylinder vibrating in air flow 9095
- Novikov, E. A.  
Scale similarity for random fields 8437
- Novikov, I. I.  
Heat transfer and resistance to movement in a rotationally advancing flow of conducting liquid in the presence of a magnetic field 3951  
Determination of the velocity of propagation of long centrifugal waves formed in translational-rotary liquid flow 9724
- Novikov, V. A.  
Design of free-wheeling clutches with eccentric rollers 7153
- Novikov, V. K.  
Instrument for measuring protective properties of lubricants working in contact with corrosive solutions 5876
- Novikova, E. T.  
See Beletskii, V. V. 8306
- Novitskii, L. A.  
See Anufriev, A. A. 4719
- Novokreshchenov, P. P.  
See Freiden, A. S. 380
- Novotny, B.  
The use of the method of asymptotic integration for the analysis of thin-layered shells and plates 2625  
On the asymptotic integration of the three-dimensional nonlinear equations of thin elastic shells and plates 9390
- Novotny, J.  
See Horsky, J. 8499
- Novotny, R.  
See Kafka, V. 1748  
Kafka, V. 7736
- Novozhilov, V. V.  
See Kadashevich, Iu. I. 3384
- Nowacki, W.  
Dynamical problems of thermoelasticity 3157  
Propagation of monochromatic waves in an infinite micropolar elastic plate 3486  
Formulas for overall thermoelastic deformation in a micropolar body 4894  
Generalized Love's functions in micropolar elasticity 5060  
Propagation of rotation waves in asymmetric elasticity 5254  
Generation of waves in an infinite micropolar elastic solid body: Parts 1 and 2 5264  
On certain thermoelastic problems in micropolar elasticity 6653  
On the completeness of potentials in micropolar elasticity 6833  
Couple stresses in thermoelasticity 7548  
See also Kaliski, S. 7547
- Nowacki, W. K.  
See Nowacki, W. 3486  
Nowacki, W. 5264
- Nowak, E. S.  
A calorimeter apparatus to measure the enthalpy difference of heavy water 2208
- Nowak, M.  
Equations of motion of an elastic free-free body 835  
Equations of motion of a holonomic system of elastic bodies 1819
- Nowinski, J. L.  
Instability of a thick nonhomogeneous elastic layer under high initial stress 1705  
On the transverse wave propagation in orthotropic Timoshenko bars 3484  
On the elastic stability of thick columns 4273  
Stability of an elastic circular tube of arbitrary wall thickness subjected to an external pressure 4281  
Some controllable states of finite oscillations of a thick-walled sphere of incompressible hyperelastic dielectric 6942
- Nowroozi, A. A.  
See Piermattei, R. 8361
- Nozaka, M.  
Scattering of electromagnetic waves by a cylindrically inhomogeneous plasma 3961

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Nozaki, M.  
Transmission of vibrational waves through a beam with many appendages 2682
- Nozawa, K.  
See Ikehata, M. 3219
- Nuller, B. M.  
A belt cut from an elastic sphere and mounted between two rigid cones 89  
On the generalized orthogonality relation of P. A. Schiff 6836  
Solution of the problem of a truncated hollow cone in the theory of elasticity 7770
- Numata, T.  
See Gotoh, K. 7481
- Nunge, R. J.  
See Gill, W. N. 2120
- Nunn, R. H.  
Jet interaction wrap-around on bodies of revolution 8885  
See also Ulrich, R. D. 3022
- Nunomura, S.  
Fractographic analysis of the fracture in single-edge notched tensile specimen of a case hardened steel 6238
- Nur, A.  
Stress-induced velocity anisotropy in rock: An experimental study 6160
- Nuriel, E. H.  
The influence of various colloids on blood cell aggregation in vivo as determined by the screen filtration pressure (SFP) method 5889
- Nustrov, V. S.  
Periodic solutions of certain nonlinear autonomous systems 6939
- Nyamura, A. A.  
See Baltrunas, I. I. 38
- Nyborg, W. L.  
The motion of liquid inside a closed vibrating vessel 704
- Nye, J. F.  
A calculation on the sliding of ice over a wavy surface using a Newtonian viscous approximation 7570
- Nysmith, C. R.  
Experimental investigation of the momentum transfer associated with impact into thin aluminum targets 1048
- Oates, G. C.  
Incompressible flow through an asymmetric two-dimensional contraction 417
- Obara, K.  
See Wakiya, S. 3678
- Obiegalka, B.  
See Niemierko, A. 7021
- Oblogina, T. I.  
See Burmakov, Yu. A. 3193
- Obodan, N. I.  
See Andreev, L. V. 968
- Obraztsov, I. F.  
Some problems of structural strength of flight vehicles 2017
- Obremski, H. J.  
Application of a quasi-steady stability model to periodic boundary-layer flows 2135
- O'Brien, E. E.  
Lagrangian history direct interaction equations for isotropic turbulent mixing under a second-order chemical reaction 472  
On the flux of heat through laminar wavy liquid layers 5661  
Heat flux and temperature variation at a wavy water-air interface 6711
- O'Brien, V.  
Form factors for deformed spheroids in Stokes flow 2856
- Obukhovskii, Ya. A.  
A high-temperature material for acoustic bonding 3133
- O'Carroll, M. J.  
The convergence of Rayleigh-Ritz approximations 1623
- Ockendon, H.  
Nonlinear wave propagation in a relaxing gas 7243
- Ochi, M. K.  
Prediction of extreme values of impact pressure associated with ship slamming 3221
- Ochsner, D. J.  
See Magrab, E. B. 2726
- O'Connor, C.  
Structural implications of fracture tests on A-1 steel 5321  
See also Lee, J. H. 8812
- O'Connor, G. E.  
See Luh, J. Y. S. 7683
- O'Connor, J. J.  
See Khadem, R. 1720  
Khadem, R. 4229
- Oda, S.  
See Aida, T. 2025
- Odar, F.  
Forces on a sphere moving steadily along a circular path in a viscous fluid 8042
- Oden, J. T.  
Finite element analysis of nonlinear problems in the dynamical theory of coupled thermoelasticity 6656  
Finite-element applications in fluid dynamics 8044  
Numerical analysis of finite axisymmetric deformations of incompressible elastic solids of revolution 9323
- Odencrantz, F. K.  
Freezing of water droplets: Nucleation efficiency at temperatures above  $-5^{\circ}\text{C}$  1357
- Odeno, H.  
Transient thermal stresses in elastoplastic disks 2392  
Transient thermal stresses in disks with a temperature dependent yield stress 4898
- Odintsov, V. A.  
See Kondratev, N. Ya. 1455
- Odintsova, G. A.  
Determination of electron density in plasma jets using a microwave Fabry-Perot interferometer and the Stark effect 9089
- O'Donnell, T.  
See Laurenson, E. M. 9172
- O'Donnell, W. J.  
See Matusz, J. M. 4245
- O'Donoghue, J. P.  
See Manton, S. M. 748
- Odqvist, F. K. G.  
Bending of rollers of nonsymmetric cross section 5139
- Oestel, D. J.  
See Culver, C. G. 7807
- Oetting, R. B.  
See Yung, S. C. 2240
- Offner, D. H.  
Generalizing the analysis of shoe-type brake-clutch systems 7992
- Oganesyants, L. G.  
See Eleonskii, V. M. 2164
- Ogarev, A. P.  
See Zhukov, A. A. 1571
- Ogasawara, M.  
Effects of temperature relaxations on waves in a homogeneous plasma 4794
- Ogata, K.  
Modern control engineering 8457
- Ogawa, A.  
The drifting force and moment on a ship in oblique regular waves 9994
- Ogawa, K.  
On the balancing of the fluctuating input torques caused by inertia forces in the crank-and-rocker mechanisms 2027
- Ogden, H.  
See Thompson, P. J. 3528
- Ogden, R. W.  
Waves in isotropic elastic materials of Hadamard, Green, or harmonic type 8643
- Ogden, T. L.  
The effect of rainfall on a large steel-works 6712
- Ogibalov, P. M.  
Termoustochivost plastin i obolochek (Thermal stability of plates and shells) 4031
- Ogino, S.  
Study on spatial four-link chain having four cylindrical pairs 1136  
On the Bennett mechanism 3646
- Ogura, H.  
Simultaneous spectral representations of isotropically correlated random fields 4152
- Ogura, M.  
A direct solution of Poisson's equation by dimension reduction method 4147
- Ogura, T.  
See Karashima, S. 3548

- Ogura, Y.  
On the degeneracy of finite-amplitude steady-state solutions for Benard convection in a highly truncated system 9803
- Oguztoreli, M. N.  
Studies concerned with time optimal control problems: Part 1, Systems described by differential difference equations 2531  
See also Chaleat, R. 191  
Mangeron, D. 1317  
Mangeron, D. 2463
- Oh, S. K.  
Non-gray radiation effects on mixing of nonsimilar gases 5678
- Ohashi, Y.  
Study on the axisymmetric elastoplastic deformation of thin plates  
Time dependent variation of the stress distribution in a semi-infinite plate compressed with an elastic flat punch 7077
- Oheim, B.  
Basic values of beams with step-wise variable moment of inertia 912
- Ohga, J.  
Study on the control of frequency response of multi-resonance system by simulating models 1474
- Ohgo, K.  
See Nakajima, K. 1909
- Ohgashi, S.  
Technique of measuring gas stream velocity by means of electric discharge 511
- Ohira, G.  
See Sato, T. 1356
- Ohkusu, M.  
On the heaving motion of two circular cylinders on the surface of a fluid 8145
- Ohnishi, K.  
See Endo, K. 2761
- Ohno, H.  
A method of analysis for multi-variable control system using digital computer 1664  
Rapid estimation of axial and plane bending fatigue limits by temperature measurement 1930
- Ohnuma, T.  
Transformation of longitudinal wave into transverse 9873
- Ohring, M.  
A dislocation dynamics study in alkali halides as revealed by deformation currents 6870
- Ohta, M.  
Experimental confirmation of the mean motion for the resultant wave formed of uniformly almost periodic functions 3147  
Study of the effect of auxiliary fuels on the performance of a diesel engine: Part 1, An experimental investigation into the effect of diesel fuel and LPG addition to intake air 4777  
Study of the turbo-charging of a high speed four-stroke cycle diesel engine: Part 2, The effect of various systems of "bypass" on the performance of the engine 4778
- Ohtaka, K.  
Higher mode vertical vibration of giant tanker: Part 1 7824
- Ohte, S.  
The fatigue strength of 18-8 stainless steel soaked in sea water 4418
- Ohuchi, K.  
See Katayama, K. 7405
- Oi, H.  
The ship design of the first nuclear ship in Japan 8378
- Oikawa, H.  
See Karashima, S. 692
- Oiknine, C.  
Heat transfer by forced convection between incompressible fluids in porous media 6690
- Ojalvo, I. U.  
See Newman, M. 5206  
Harris, H. G. 8007
- Ojalvo, M.  
Out-of-plane buckling of curved members 7786
- Ojha, S. K.  
An experimental study of laminar separation bubbles 6389
- Oka, S.  
Determination of the flow curve by a cone and plate viscometer 518
- Oka, Y.  
Determination of tensile strength of concrete by compressing cylindrical test pieces axially over limited areas 7086
- Okabe, J. -I.  
See Yamada, H. 497  
Tatsuno, M. 9729
- Okada, K.  
Study on the differential shrinkage of composite prestressed concrete beam 1990
- Okada, T.  
See Endo, K. 2058  
Endo, K. 8386
- Okatake, H.  
See Minami, Y. 293
- Okazaki, N.  
See Yasuda, T. 1970
- Okazaki, T.  
See Tanida, Y. 3975  
Kotake, S. 5711
- Okhotsimskii, D. E.  
Optimum control during atmospheric reentry 640
- Okhrememko, N. M.  
Traveling-field induction pumps 2329
- Oki, S.  
Analysis of thermal stress in a spherical casting during its solidification 4036
- Okita, M.  
See Taniguchi, T. 791
- Okubo, H.  
Electroplating method of stress analysis 5358
- Optimum size of fatigue cracks promoting the effect of subsequent understressing 7064
- Okuda, M.  
See Matsuchita, T. 8268
- Okumura, T.  
Free vibrations of twin arches joined at apex 1000
- Okun, I. Z.  
Calculation of the pressure of a fluid on a piston in the case of constant velocity of its expansion 8884
- Okushima, K.  
A contribution to the determination of tool change interval 1911
- Oladapo, I. O.  
Relationship between moment capacity at flexural cracking and at ultimate in prestressed concrete beams 1991  
Stability of tensile cracks in prestressed concrete beams 7971
- Olander, H. C.  
Design of cylindrical concrete water tanks 9595
- Olander, R. R.  
An analytical expression of micro-layer thickness in nucleate boiling 531
- Olariu, V.  
The elastic-effective characteristic of the suspension provided by progressive semi-elliptic springs 6280
- Olcer, N. Y.  
On a generalized multiregion Graetz problem 542  
Unsteady heat conduction in finite hollow circular cylinders under time-dependent boundary conditions of the second kind 2216  
General solutions to a class of unsteady heat conduction problems in a rectangular parallelepiped 2977  
Unsteady temperature distribution in a sphere subjected to time-dependent surface heat flux and internal heat source 6482
- Oldenburger, R.  
See Ansari, J. 5941
- Oldman, M.  
See Semotan, J. 8315
- Oleinik, N. V.  
Fatigue strength under varying loads in relation to time of action 8720
- Oleinik, O. A.  
Mathematical problems of boundary layer theory 3723  
Approximate solutions and asymptotic expansions for the problem of boundary layer development during acceleration 8093
- Oleinik, V. N.  
See Kuznetsov, N. M. 2267
- Olesiak, Z.  
The distribution of surface stress necessary to produce a penny-shaped crack of prescribed shape 1712
- Oleson, M. W.  
Shock signal integrator 9474

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Olesov, Yu. G.  
See Rubtsov, A. N. 6481
- Oleszkiewicz, S.  
Asymmetry of strength distribution in concrete and steel 5395  
Load-carrying capacity of prestressed concrete beams with regenerated cross-section of failure 7973
- Olevinskaya, S. K.  
Some characteristics of thermobaric seiches in meridional heat fluxes 2422
- Olevinskiy, K. K.  
See Rozhdestvenskiy, I. B. 3844
- Olevskii, V. M.  
See Rogovaya, I. A. 6324
- Olfe, D. B.  
The decay of perturbations in a radiating gas 9009
- Oliva, R. F.  
See Cucka, P. 1965
- Oliver, D. A.  
See DeBarr, A. E. 1068
- Oliver, D. R.  
Non-Newtonian heat transfer: An interesting effect observed in non-circular tubes 5670
- Oliver, R. E., II  
See Williams, J. C., III 421
- Olkhovskii, G. G.  
Determination of efficient operational conditions for gas turbine plant compressors during start up 1284  
Experience gained from the first years of operating the gas turbine power station at Nebit-Dag, Turkmenian SSR 8253  
Thermal tests on the Escher-Wyss closed cycle turbine plant installed on Mosenergo Central Power Station No. 4 9050
- Ollerhead, J. B.  
See Lowson, M. V. 3123
- Ollila, M.  
General method for the calculation of random pile groups assuming infinitely rigid mat on top of piles 7031
- Olmstead, W. E.  
A new paradox in viscous hydrodynamics 1194
- Olsen, J. H.  
Large-amplitude unsteady flow in liquid-filled elastic tubes 2170
- Olshevskii, V. V.  
See Akulichev, V. A. 661
- Olson, H. G.  
High-speed photographic studies of ultrasonically induced cavitation 7176
- Olson, M. D.  
Annular and circular sector finite elements for plate bending 8556
- Olsson, G. R.  
Hypersonic laminar boundary layer approaching the base of a slender body 6382
- Olstad, W. B.  
Stagnation-point solutions for inviscid radiating shock layers 8215
- Olszak, W.  
The state equations and relaxation phenomena in elastic viscoplastic 3369  
On thermal effects in viscoplasticity 5820  
The constitutive equations for elastic/visco-plastic soils 8669
- Olszowski, B.  
Efficiency of the optimal shock isolation 5243
- Olubode, J. A.  
The effect of size on the yield of steels under static contact loads 6014
- O'Malley, R. E., Jr.  
Boundary value problems for linear systems of ordinary differential equations involving many small parameters 1607  
On a boundary value problem for a nonlinear differential equation with a small parameter 7619
- Omelchenko, V. T.  
Determination of the excess temperature of electrical contacts with continuous current variation 1318
- Ometinskaya, E. B.  
General equations of dynamics of plates 6886
- Omholt, T.  
See O'Brien, E. E. 6711
- Ommaya, A. K.  
Comparative tolerances for cerebral concussion by head impact and whiplash injury in primates 8398
- Omura, M.  
Electron density measurements ahead of shock waves in air 9666
- Onat, E. T.  
See Dieterich, J. H. 2413
- O'Neil, E. J.  
See Hakkinen, R. J. 476
- O'Neill, M. E.  
See Cooley, M. D. A. 6326
- O'Neill, M. W.  
See Reese, L. C. 8679
- Onishchenko, N. Ya.  
Attachment to PMT-3 micro-hardness tester for rotating the specimen 4452
- Onishi, Y.  
Two-dimensional jet penetration with free streamlines 7194
- Oodaira, H.  
A note on the equivalence of stationary Gaussian processes 4153
- Oosthuizen, P. H.  
A numerical study of turbulent free convection from an isothermal vertical plate 7422  
Combined convective heat transfer from horizontal cylinders in air 8991
- Oouchi, C.  
See Ichinose, H. 7739
- Opitz, H.  
Analysis of the dynamic properties of machine tools by applying the theory of system with random input 3649
- Oppenheim, A. K.  
See Lundstrom, E. A. 1468  
Lee, J. H. 9837
- Opresnik, M.  
Availability efficiency of heat pumps 8182
- Oran, C.  
Buckling of uniformly compressed circular arches 1795
- Orangun, C. O.  
See Smith, R. G. 9581
- Orbeck, F.  
A theory of failure based on probability for fatigue of ductile materials 4405
- Orchard-Hays, W.  
Advanced linear-programming computing techniques 5914
- Ordanovich, A. Ye.  
See Ivanov, V. N. 9980
- Orenstein, G. S.  
See Nawy, E. G. 7963
- Orkin, V. M.  
See Andreev, Yu. N. 9304
- Orlanski, I.  
Formation of the thermocline step structure by large-amplitude internal gravity waves 7572
- Orlin, A. S.  
Strength of welded support blocks for turbo-piston engines 3657
- Orlov, E. G.  
See Grigorev, A. M. 3815
- Orlov, S. S.  
See Indenbom, V. L. 767
- Orlov, V. V.  
Experimental study of turbulence near a duct wall 9699
- Orna, M.  
Analysis of the stresses in the exhaust stage disks of large condensing turbines 3916
- Ornatskiy, A. P.  
The effect of basic regime parameters and channel geometry on critical heat fluxes in forced convection of subcooled water 2259
- Orner, P. A.  
Stochastic testing methods for fluid amplifiers 2523  
Linear dynamic modeling of flowing fluid lines 8943
- Ortiz, E. L.  
See Chaves, T. 3273
- Ortloff, C. R.  
On the dynamic motion of a thin flexible cylinder in a viscous stream 7345
- Orville, H. D.  
Ambient wind effects on the initiation and development of cumulus clouds over mountains 9984
- Osadin, V. A.  
Selecting the parameters for a diesel engine air cooler 3889
- Osakada, K.  
See Oyane, M. 1575
- Osborn, H. B.  
See Renard, K. G. 9170

- Osborn, J. R.**  
On the interaction of a finite amplitude pressure pulse with a combustion region 1400
- Osborn, R. B.**  
See Hayes, M. 7546
- Osborn, W. M.**  
Effects of three-outlet-annulus area blockage configurations on the performance of a 20-inch (50.8-CM) axial-flow compressor rotor 7366
- Osborne, M. R.**  
The numerical solution of a periodic parabolic problem subject to a nonlinear boundary condition; Part 2 3306  
A note on Powell's method for calculating orthogonal vectors 9261  
See also Andersen, R. S. 780
- Osburn, D. L.**  
Strength of reinforced concrete beams with web reinforcement in combined torsion, shear, and bending 1756
- Osburn, J. O.**  
See Sheppard, R. G. 2944
- Osgerby, C.**  
Programmed fatigue machine 6230
- Osipov, A. A.**  
See Kraiko, A. N. 2876
- Osipov, A. F.**  
Unstable operation of hydraulic motors at low speeds 8159
- Osipov, A. I.**  
On the theory of vibrational relaxation 3841  
Relaxation processes in gases: Part 1, nonequilibrium translational energy distribution 8175  
See also Stupochenko, Ye. V. 433
- Osipov, I. O.**  
On the two-dimensional problem of propagation of elastic waves due to a point source in an anisotropic medium 8658
- Osipov, Iu. S.**  
See Kurzanskii, A. B. 5951
- Osipov, N. Ya.**  
See Vilner, P. D. 8609
- Osipov, Yu. S.**  
On the stabilization of nonlinear control systems with delay in the critical case of one zero root 1652
- Osipova, M. A.**  
Input language of a universal computer 5916
- Osman, M. A.**  
Heat and mass transfer in rapid firing: Core burnout in brick making 8242
- Osmolovskii, P. F.**  
An algorithm for the utilization of information redundancy in multi-dimensional reproduction systems 2519
- Osonitsch, C. W.**  
See Leng, J. 9841
- Osovskii, L. M.**  
Identification of one-dimensional nonlinear controlled plants by phase and amplitude characteristics 4172
- Ostapchuk, I. I.**  
Experimental investigation of the creep and strength of non-uniformly heated turbine disks made from alloys EI-437B and EI-878 5832
- Ostapenko, V. V.**  
See Chernilin, Yu. F. 3868
- Ostermayer, H.**  
See Ranke, A. 255
- Ostrovskii, L. A.**  
Second-order terms in a traveling sound wave 8318
- Ostrowska, J.**  
Indentation of a smooth punch into a rigid-plastic half-space with a jump nonhomogeneity 271  
Initial plastic flow of half-space with a strong layer nonhomogeneity 3379
- Oswatitsch, K.**  
On vorticity numbers and vorticity measures 7189
- Ota, H.**  
On elimination of the unstable region of the major critical speed in a rotating shaft system carrying an unsymmetrical rotor: Dynamical effect of a flexible pedestal or added mass on the shaft 4295  
See also Yamamoto, T. 9440
- Otmakhova, I. P.**  
The flow of rarefied gas through a diffuser (effuser) 7280
- Otruba, J.**  
See Saxl, I. 7737
- Otsuka, S.**  
A note on the surveying position of outlet flow in cascade experiments 4658  
On the performance of a wing having tip clearance: Part I, The case in which the tip clearance is contained within a non-uniform flow 9705
- Ottersten, H.**  
See Hardy, K. R. 4940
- Otts, J. V.**  
Random-force vibration testing 6099
- Outwater, J. O.**  
On the fracture energy, rehealing velocity and refracture energy of cast epoxy resin 7901
- Ovakimian, R. N.**  
Loads on the cylindrical shell in the electromagnetic field 5174
- Overholser, K. A.**  
See Bowen, J. R. 4858
- Ovunc, B.**  
Semi-infinite plate subjected to the concentrated load acting at its internal point 1764  
On the splitting tests of the hollow cylinder specimens 5068
- Owczarek, S.**  
Stress condition on the connection plane between beam and column 7142
- Owen, J. M.**  
See Bayley, F. J. 8856
- Owen, N. B.**  
See Evans, P. R. V. 9535
- Owen, P. R.**  
Pneumatic transport 9954
- Owen, R.**  
Welding residual stresses in plate-web girders 9623  
See also Rockey, K. 4486
- Owen, T. B.**  
Low-speed wind-tunnel measurements of oscillatory rolling derivatives on a sharp-edged slender wing: Effects of frequency parameter and of ground 8132
- Oyane, M.**  
Development of laws of similarity for electrospray forming 275  
Improvement of formability of metals in extrusion by means of two-stage extrusion 1070  
The mechanism of lubricant trapping under dynamic compression 1575  
Back pressure extrusion of brittle metals and metallic powder 5310
- Oz, A. C.**  
Limit analysis of forces exerted on soil shoving equipment 9501
- Oza, K. G.**  
System identification and the principle of random contraction mapping 5932
- Ozaka, Y.**  
See Nishiki, T. 8793
- Ozbek, T.**  
Some elasticity problems in fiber-reinforced composites with imperfect bonds 3363  
See also Erdogan, F. 5996
- Ozisik, M. N.**  
On the normal-mode expansion technique for radiative transfer in a scattering, absorbing and emitting slab with specularly reflecting boundaries 1344  
Transient freezing of liquids in forced flow inside circular tubes 4745

## P

- Paassen, H. L. L.**  
See Bernstein, M. J. 4835
- Paaswell, R. E.**  
See Partheniades, E. 8839
- Pabjanek, A.**  
Dynamic loading of rigid-viscoplastic cylindrical shell 2725
- Pacheco, E. S.**  
Interaction between a screw dislocation and a bimetallic interface 5122
- Packham, B. A.**  
Reflection of Kelvin waves at the open end of a rotating semi-infinite channel 9733
- Packman, P. F.**  
See Corbly, D. M. 7916
- Padalka, V. G.**  
See Demidenko, I. I. 4821

- Padmanabhan, L.**  
A direct second-variational method for free-endpoint, free-time optimal control problems by Newton's method in function space 67  
See also Gal-Or, B. 701
- Padmini Agarwal, R. K. L.**  
See Kartha, C. G. 8820
- Padovan, J.**  
Vibrations of closed and open sandwich cylindrical shells using refined theory 9448
- Pagano, N. J.**  
See Halpin, J. C. 5088
- Page, R. H.**  
See Hill, W. G., Jr. 454  
El-Assar, R. J. 7221
- Pai, B. R.**  
The influence of density gradients on the effectiveness of film cooling 3822  
Simplification of the razor blade technique and its application to the measurement of wall-shear stress in wall-jet flows 8122
- Pai, S. I.**  
Unsteady boundary layer flows of a compressible fluid 8111
- Paiewonsky, B.**  
See Szego, G. C. 8300
- Paine, G.**  
See Leonides, C. T. 5035
- Pais-Cuddou, I. C. Dos M.**  
Sedimentation of reservoirs 8843
- Pakdemirli, E.**  
Metal fiber reinforced thermoplastics and the role of adhesion efficiency 862
- Pakhomov, V. I.**  
Interaction between a beam of charged particles and surface waves in plasma 2318
- Pakhomova, L. A.**  
See Myachenkov, V. I. 690
- Pal, A. K.**  
On the reentry of a ballistic missile into the Earth's atmosphere 639  
Some aspects of the oblique cutting process 1075
- Pal, M. C.**  
Large deflections of heated circular plates 4893
- Palaiya, R. M.**  
See Srivastava, K. N. 3149
- Palchikov, O. I.**  
Optical investigation of the concentration of membrane stresses in a plate with a dent 9554
- Paldas, M.**  
See Roy, T. K. 7093
- Palfrey, A. J.**  
The viscosity of synovial fluid during oscillatory movement 1588
- Palii, O. M.**  
Elastoplastic axisymmetric deformations of circular plates 925
- Palm, E.**  
See Ellingsen, T. 7227
- Palmieri, G.**  
A pattern recognition machine 7691
- Palmieri, L.**  
See Alippi, A. 6644  
Alippi, A. 9139
- Palmore, J.**  
See Bennett, A. 1458
- Palmov, V. A.**  
Propagation of random vibrations in a rod with nonlinear properties 8637
- Paltsun, N. V.**  
Propagation of cracks in a lamellar medium 3542
- Palusinski, O.**  
Stability of systems with conservative elements 2506
- Palva, T.**  
Suprathreshold auditory adaptation 1599
- Pan, C. H. T.**  
See Chiang, T. 2439
- Pan, H. H.**  
See Austin, F. 9434
- Pana, T.**  
Effect of concentrated masses on the free vibrations of thin wall bars with a closed cross section 197
- Panasenko, M. D.**  
Boiler calculations for different operational conditions by the method of increments, using a digital computer 572
- Panasyuk, V. V.**  
Critical stress diagrams for brittle materials with defects of the cusped void/crack type 1923  
The problem of fracture of a brittle body with a penny-shaped crack 4392  
A machine for tensile tests at fast strain rates 5145  
On the limits of equilibrium for a three-dimensional brittle body with an internal plane crack of oval form 6846
- Panchenko, K. P.**  
Dynamics of grooved thread-milling cutters 7896
- Panchev, St.**  
Nonadiabatic rise of individual volumes of air in a stably stratified atmosphere 6708
- Panchin, V. V.**  
See Lebedev, A. A. 139
- Panczak, D.**  
Equations of the theory of consolidation in the case of presence of liquid sources and a skeleton 5293
- Panda, D.**  
An infinite isotropic compressible medium with a circular hole under uniform tangential stress in second-order elasticity 6823
- Pandey, G. N.**  
See Tripathi, G. 4040
- Pandolfi, M.**  
See Dadone, A. 1279
- Panet, M.**  
Some problems of rock mechanics related to the Mont-Blanc tunnel 8688
- Panferov, K. V.**  
Methods of determining long-term strength of foam plastics 3573
- Panfilovich, V. B.**  
Problems of experimental investigation of turbine supersonic blade cascade 7365
- Panin, V. I.**  
See Turchaninov, I. A. 6166
- Panko, S. V.**  
Invariant transformation of the Euler equations for plane steady flow of a perfect compressible fluid 1202
- Pannell, F. N.**  
The ultimate moment of resistance of unbonded prestressed concrete beams 5394  
Slender reinforced concrete columns with biaxial eccentricity of loading 8773
- Panofsky, H. A.**  
See Trout, D. 4076
- Panov, B. V.**  
See Zhukovskii, M. V. 7094
- Panov, L.**  
See Popov, M. 8953
- Panov, Yu. A.**  
Interaction of a three-dimensional shock wave with a turbulent boundary layer 9689
- Panovko, Ya. G.**  
Ustoichivost i kolebaniya uprugikh sistem: Izdanie vtoroe (Stability and vibrations of elastic systems: 2nd edition 7779  
See Birgera, I. A. 80
- Pant, J. C.**  
Some aspects of unsteady curved shock waves 2100
- Pantazopol, D.**  
See Carafoli, E. 4580
- Panton, R. L.**  
Analysis of the boundary layer preceding an accelerating flame 4764
- Panyushkin, A. V.**  
See Kotousov, L. S. 1385
- Pao, H. -P.**  
Sources and sinks at the axis of a viscous rotating fluid 4570
- Pao, Y. C.**  
Momentless design of composite structures with variable elastic constants 5184
- Pao, Y. -H.**  
Laminar flow of a stably stratified fluid past a flat plate 463  
Clear air turbulence and its detection 8366  
See also Thau, S. A. 8645
- Pao, Y. -P.**  
Knudsen flow through a long circular tube 7274  
On the instability of certain nonlinear periodic waves 9225
- Papa, G.**  
See Forghieri, R. 585

- Papadakis, E. P.**  
Effect of multimode guided-wave propagation on ultrasonic phase velocity measurements: Problem and remedy 2382
- Papatzacos, P.**  
See **Jenssen, O.** 9381
- Papin, Yu. D.**  
See **Ivanov, V. L.** 3893
- Papirno, R.**  
See **Becker, H.** 7076
- Pappas, M.**  
See **Herman, H.** 9422
- Parabrahma Chary, S.**  
See **Venkata Apparao, K.** 2268
- Paramasivam, P.**  
Buckling of plates of abruptly varying stiffnesses 2658  
Free vibrations of rectangular plates of abruptly varying stiffnesses 6085
- Parameswar, H. C.**  
See **Sherbourne, A. N.** 329
- Parameswara Rao, M.**  
Stability of large elastic deformations: Parts 1 and 2 5054  
On the steady rotation of disks in the form of hypotrochoid 7778
- Paramonov, Yu. M.**  
The optimal use of service-test aircraft for determining aircraft service life 2335
- Parate, N. S.**  
Fracture criteria of fragile rocks 3520
- Parazzoli, C.**  
See **Enkenhus, K. R.** 8970
- Parente, R. B.**  
Nonlinear differential equations and analytic system theory 7622
- Parfitt, G. D.**  
Dispersion of powders in liquids with special reference to pigments 4913
- Parfitt, V. R.**  
Reflection of plane waves from the flat boundary of a micropolar elastic half-space 1873
- Parida, J.**  
Note on thermal stresses in a long isotropic hollow cylinder heated on the outer curved surface 3151  
See also **Das, A. K.** 2388
- Pariseau, W. G.**  
Gravity flows of ideally plastic materials through slots 2599
- Parisse, R. F.**  
Material coupling in the analysis of orthotropic layered shells 7776  
See also **Rossettos, J. N.** 6956
- Park, Im. K.**  
Oscillatory impact of an inhomogeneous viscoelastic rod 7856
- Parker, D. F.**  
The interaction of finite amplitude deflection and stretching waves in elastic membranes and strings 983
- Parker, E. N.**  
Physical model of hydrodynamic turbulence 2907
- Parker, G. J.**  
Some single- and two-phase characteristics of a narrow passage for water removal from low-pressure steam turbine fixed blades 576
- Parker, J. D.**  
Introduction to fluid mechanics and heat transfer 4555
- Parker, L. W.**  
See **Whipple, E. C., Jr.** 3958
- Parker, R.**  
Pressure fluctuations due to interaction between blade rows in axial flow compressors 4670
- Parkhilovskii, I. G.**  
An improved rolled section for vehicle leaf-springs 7991
- Parkins, W. E.**  
See **Prem, L. L.** 8280
- Parkinson, A. G.**  
See **Bishop, R. E. D.** 187  
See **Bishop, R. E. D.** 6815
- Parkinson, D.**  
Landau damping of long wavelength ion acoustic waves in a collision-free plasma with a gravity field 3939
- Parks, D. J.**  
Fluorocarbon combustion studies V: Trifluorochloromethane- and trifluorobromomethane-fluorine flames 4767  
See also **Fuller, L. E.** 8237
- Parks, V. J.**  
The grid method 1960  
See also **Durelli, A. J.** 303  
See also **Durelli, A. J.** 939  
See also **Lee, H.-C.** 1103  
See also **Durelli, A. J.** 1945  
See also **Durelli, A. J.** 3561
- Parkus, H.**  
Irreversible aspects of continuum mechanics and transfer of physical characteristics in moving fluids 384  
Mechanik der festen Körper: Zweite, neubearbeitete und um 123 Aufgaben erweiterte Auflage (Mechanics of solid bodies: 2nd revised and enlarged edition) 5965
- Parlange, J.-Y.**  
Spherical cap bubbles with laminar wakes 5835
- Parlett, B. N.**  
Balancing a matrix for calculation of eigenvalues and eigenvectors 7642
- Parlett, L. P.**  
Wind-tunnel investigation of an STOL aircraft configuration equipped with an external-flow jet flap 3979
- Parmelee, R. A.**  
Seismic response of multiple-story structures on flexible foundations 3624  
See also **Mousa, A. M.** 1777
- Parmet, I. L.**  
The Newton-Raphson approximation applied to the Navier-Stokes equations with application to the base flow problem 412
- Parnes, R.**  
Axisymmetric dynamic response of circular plates with arbitrary elastic boundary restraints 8651
- Parrott, J. E.**  
See **Meddins, H. R.** 535
- Parry, D. J.**  
See **Edwards, D. H.** 9120
- Parry, J. S. C.**  
See **Brook, R. H. W.** 5335
- Parsons, A. T.**  
A two-layer model of Gulf Stream separation 4926
- Parzewski, Z.**  
Pressure distribution and load capacity of journal bearing with eccentric sleeves 5874
- Partel, G. A.**  
Space engineering 9911
- Partheniades, E.**  
Erodibility of channels with cohesive boundary 8839
- Parton, V. Z.**  
Dynamic problem for a plane with a cut 7706  
See also **Morozov, E. M.** 1922
- Partridge, P. G.**  
Effect of cyclic stresses on the micro-structures of hexagonal close packed metals 141
- Partsevskii, V. V.**  
Action of a concentrated force on a laminated half-space in the case of plane strain 8515
- Parys, L.**  
ZAMECH produced heating plant and industrial turbines of medium and high rating 5724
- Parzonka, W.**  
Model with three parameters for visco-plastic bodies: Transformation of the pseudo curve of flow into the real curve from the Couette viscosimeter 2045
- Pascal, H.**  
On the problem of the "in-situ" determination of the hydrodynamic friction coefficient in pipeline gas flow 6338  
Concerning several methods of the "in situ" determination of permeability in porous media 8344
- Pasechnik, V. I.**  
See **Berzon, I. S.** 711
- Pashkovskii, V. G.**  
Stress fields of dead-end micro-cracks 5326
- Pasin, F.**  
Stability of oscillating rotating shafts with external and internal damping 3444
- Pasko, W.**  
Isotherms in non-constant area tube arcs 6546
- Paskonov, V. M.**  
Calculation of boundary layer at electrically conducting wall of a plane channel 4792

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Paskowski, S.**  
The application of the method of least squares to the integration of empirical functions 1629
- Paslay, P. R.**  
Vibration characteristics of a submerged ring-stiffened cylindrical shell of finite length 7821  
Plastic flow of rock under a pointed punch in a plane strain 8692  
*See also* Weidler, J. B. 1514  
Cheatham, J. B., Jr. 8691
- Passey, R. D. C.**  
The effect of mean stresses on fatigue strength: A method of constructing R-M diagrams for plain fatigue specimens 1926
- Passino, R.**  
*See* Barba, D. 2280
- Passman, S. L.**  
*See* Marris, A. W. 1171
- Pataraya, A. D.**  
Structure of a shock propagating through a plasma transverse to the magnetic field 3086
- Pate, S. R.**  
Experiments on control of supersonic transitional flow separation using distributed suction 466
- Patel, B. R.**  
*See* Turda, T. P. 9839
- Patel, D. J.**  
Dynamic elastic properties of the aorta in radial direction 8396
- Patel, G. C.**  
*See* Zorowski, C. F. 8579
- Patel, J. S.**  
Natural frequencies and strain distribution in a ring-stiffened thick cylindrical shell 8613
- Patel, P. D.**  
Solutions for distributed loads on long cylinders 1771
- Patel, V. C.**  
The effects of curvature on the turbulent boundary layer 2124  
Some observations on skin friction and velocity profiles in fully developed pipe and channel flows 2854
- Paterson, W. S. B.**  
The physics of glaciers 6692
- Patil, B. S.**  
*See* Taylor, C. 7573
- Patnaik, S.**  
*See* Dayaratnam, P. 322
- Patrick, R. L.**  
Stress-solvolytic failure of an adhesive bond 4420
- Patrick, R. M.**  
Neutral particle flux measurements in a plasma wind tunnel 3947
- Pattabhi Ramacharyulu, N. Ch.**  
*See* Someswara Rao, S. 7412
- Pattee, H. E.**  
Effect of flame and mechanical straightening on material properties of weldments 9622
- Patten, B. J. F.**  
*See* Christian, B. H. 2794
- Patterson, G. W.**  
The fracture of idealized abrasive particles 1912
- Patterson, R. B.**  
Relationships between acoustic backscatter and geological characteristics of the deep ocean floor 4931
- Patterson, R. D.**  
Noise masking of a change in residue pitch 1482
- Patton, W. J.**  
Modern manufacturing processes and engineering 7885
- Patuzzi, A. A.**  
*See* Puhlinger, O. M. 8784
- Patwardhan, A. S.**  
Certain aspects connected with programming for stresses, displacements and stability analysis for zoned high earth dams 4360  
Settlement analysis for earth dams built on foundations of variable compressibility 8681  
*See also* Katti, R. K. 8685
- Paty, L.**  
The pumping process in turbomolecular pumps and its connection with the accommodation coefficient 451
- Paul, B.**  
*See* Sikarskie, D. L. 8630  
Fu, C. C. 8638
- Paul, H. S.**  
Sinusoidal rocking of a rigid rectangular body on an infinite isotropic elastic plate 861  
Vibration in an infinite isotropic elastic plate due to a vertical harmonic load 988  
Propagation of torsional disturbance in an infinite solid of piezoelectric  $\beta$ -quartz 1032  
Rotatory vibration of a rigid circular die on a semi-infinite elastic solid 1034  
Torsional waves in a circular cylinder of piezoelectric (622) crystal class 3494  
Longitudinal wave propagation in an infinite isotropic elastic plate with a penny-shaped crack 5261  
Transient analysis of a potential pulse in piezoelectric plates 5275  
*See also* Srinivasa Rao, B. 2565
- Paul, M. H.**  
*See* Grahm, A. R. 9213
- Paul, S. L.**  
*See* Sozen, M. A. 358
- Paulon, J.**  
Experimental investigation of a cascade in a subsonic annular wind-tunnel 3797
- Pavelescu, D.**  
Dependence of friction and stick-slip on the main wear factors 8384
- Pavelyev, A. A.**  
*See* Navoznov, O. I. 2080
- Pavli, A. J.**  
*See* Winter, J. M. 4785
- Pavlichenko, O. S.**  
*See* Dushin, L. A. 1439
- Pavlin, C.**  
*See* Sarpkaya, T. 8848
- Pavlinec, M.**  
*See* Zeman, E. 2452
- Pavlov, I. M.**  
*See* Krupin, A. V. 9518
- Pavlov, O. O.**  
Arrangement criterion for threshold self-selection of variables in algorithms of the method of data handling by groups 9284
- Pavlov, S. I.**  
*See* Kantsel, V. V. 3902
- Pavlov, V. G.**  
*See* Krestovnikov, A. N. 2210  
Lunev, V. V. 7240  
Lunev, V. V. 7260
- Pavlov, V. I.**  
Graphoanalytical method of calculating the mechanical characteristics of a material from the stress relaxation at constant strain 120
- Pavlov, V. V.**  
*See* Vardanyan, G. S. 7934
- Pavlovskii, A. Z.**  
*See* Pryakhin, V. V. 1380
- Pavlovskii, P. A.**  
Some approximations in the electrodynamics of moving media 7482
- Pavlovsky, H.**  
Plane vibrations of annular disk having a constant thickness 1836  
Characteristic values and normed displacements of the annular disk 9444
- Pavlyukevich, N. V.**  
*See* Leitsina, V. G. 2126
- Pawel, D.**  
Observations on the initiation of detonation 3903
- Pawelski, O.**  
Stresses in the rod, straightening force, and drive moment during straightening of rods in two-roll straightening machines 5311
- Paxton, J. A.**  
*See* Houk, I. E., Jr. 8767
- Payne, B. W.**  
Application of power spectral methods to aircraft gust clearance 7333
- Payne, F. R.**  
Generalized Gram-Charlier method for curve-fitting statistical data 8114
- Payne, H. J.**  
An approximation method for nearly linear, first-order stochastic differential equations 2516
- Payne, L. E.**  
On the stability of solutions of the Navier-Stokes equations and convergence to steady state 2075  
*See also* Knops, R. J. 8512

- Payton, R. G.**  
Two-dimensional pulse propagation in a two-parameter anisotropic elastic solid 2727  
Two-dimensional wave front shape induced in a homogeneously strained elastic body by a point perturbing body force 5253
- Paz, U.**  
See Poreh, M. 2913
- Pchelintsev, L. A.**  
See Kuznetsov, P. I. 4202
- Peake, D. J.**  
Three-dimensional flow separations on upswept rear fuselages 6413
- Pearce, R.**  
Some aspects of anisotropic plasticity in sheet metals 7732
- Pearson, C. E.**  
See Carrier, G. B. 3
- Pearson, G. S.**  
Catalyzed ignition of composite propellant fuels by gaseous oxygen 2286
- Pearson, H. S.**  
See Corbly, D. M. 7916
- Pearson, J. D.**  
Deterministic aspects of the identification of linear discrete dynamic systems 6792  
Decomposition of large optimal-control problems 8479
- Pearson, J. R. A.**  
The flow of a tubular film: Part 1, Formal mathematical representation 7197  
See also Davidson, J. F. 5462
- Pearson, R. S.**  
Free convective effects on Stokes flow mass transfer 2239
- Pearsons, K. S.**  
Judged noisiness of modulated and multiple tones in broad-band noise 1484
- Pechhold, W.**  
Damping and modulus-defect during plastic deformation: Part 2, A method for the continuous measurement of the complex Young's modulus during tensile and creep tests 5127
- Peck, J. C.**  
Shadow-zone response in the diffraction of a plane compressional pulse by a circular cavity 228  
The relationship of the critical stress versus impulse theory of spall fracture to the stress-gradient theory 6120  
Dispersive pulse propagation parallel to the interfaces of a laminated composite 6996  
See also Whittier, J. S. 3493
- Peck, R. B.**  
Advantages and limitations of the observational method in applied soil mechanics 3508
- Peckham, D. H.**  
Low-speed wind-tunnel tests of a number of fin configurations on a flat-plate gothic wing of unit aspect ratio 8927
- Pecknold, D. A.**  
Finite-element analysis of skewed shallow shells 928
- Peddieson, J., Jr.**  
Small oscillations of a beam-column with finite electrical conductivity in a constant transverse magnetic field 984
- Pedersen, F. B.**  
Optimum system of galleries of water power plants 2048
- Pedley, T. J.**  
The viscous vortex induced by a sink on the axis of a circulating fluid in the presence of a plane free surface 1191
- Pedlosky, J.**  
Axially symmetric motion of a stratified, rotating fluid in a spherical annulus of narrow gap 5851  
Linear theory of the circulation of a stratified ocean 9176
- Pegg, R. J.**  
A flight investigation of a light-weight helicopter to study the feasibility of fixed-collective-pitch auto-rotations 2338
- Pehrson, B.**  
A nonlinear digital filter for industrial measurements 6781
- Pei, D. C. T.**  
See Boulos, M. I. 568  
Reddy, K. V. S. 6451
- Peiffer, K.**  
Lyapunov's second method applied to partial stability 2503
- Peinado, C. O.**  
Cavity liner, penetration liners and closures of a prestressed concrete pressure vessel for a gas-cooled power reactor 2011
- Peir, J. -C.**  
See Bishara, A. 1989
- Pekeris, C. L.**  
Stability of plane Poiseuille flow to periodic disturbances of finite amplitude 8871  
The neutral curves for periodic perturbations of finite amplitude of plane Poiseuille flow 8872
- Pela, R.**  
Fundamentals of the computation of trussed shells 5171  
Fundamentals of calculations of trussed shells 9395
- Pelech, I.**  
See Gustafson, W. A. 5536
- Pelecudi, Chr.**  
Kinematic multipoles with rigid links 1142  
Interpretation of the dyad as kinematic dipole and quadrupole 2825
- Pelekh, B. L.**  
Effect of shear deformations on the bending of a half-space with a clamped edge and under a concentrated load 90  
See also Teters, G. A. 186  
Teters, G. A. 1817  
Nemish, Yu. N. 8508
- Peletier, L. A.**  
See Broer, L. J. F. 7338
- Pelipenko, I. A.**  
See Sobolev, V. M. 7985
- Pellandini, F.**  
Noise reduction by gradual memorization 9309
- Pellinets, V. S.**  
Remote testing of resistance thermometers 7402
- Pellini, W. S.**  
Integration of metallurgical and fracture mechanics concepts of transition temperature factors relating to fracture-safe design for structural steels 1917
- Pendered, J. W.**  
See Bishop, R. E. D. 187
- Penelis, G.**  
Buckling of three-dimensional one-storey frames 6924
- Penny, R. K.**  
The creep of pressurized cylindrical shells 5157  
See also Leckie, F. A. 3615  
Leckie, F. A. 5413  
Hayhurst, D. R. 9548
- Penzes, L. E.**  
Free vibrations of thin orthotropic oblate spheroidal shells 1841
- Peras, A. Ya.**  
On the "scale effect" at pure bending of brittle porous materials 8710
- Perazich, D. I.**  
See Brandt, B. B. 6680
- Percival, C. M.**  
A theoretical and experimental investigation of the dynamic response of rolamite 8804  
See also Brammer, J. A. 9550
- Percus, J. K.**  
Exact solution of kinetics of a model classical fluid 9675
- Perel, V. I.**  
See Kagan, Yu. M. 2317
- Perelman, D. S.**  
See Parmelee, R. A. 3624
- Pereverzev, D. A.**  
The influence of friction on temperature distribution in the cooled rotor of a turbine 8254
- Pergament, M. I.**  
See Vasileva, R. P. 4836
- Periaux, J.**  
Flutter prediction of an airplane with dry friction 618
- Perkins, W. R.**  
See Wilkie, D. F. 790
- Perlea, V. D.**  
On the stability analysis of earth dam slopes 4361
- Perlin, S. M.**  
See Shreiber, G. K. 7942
- Perminov, M. D.**  
See Banakh, L. Ya. 7812

- Perminov, V. D.  
Heat transfer from heated spheres  
in a static rarefied gas 9676
- Permyakov, B. A.  
Study of heat transfer from a tube  
wall to an air-solids flow 564
- Perona, G. E.  
Structure of a normal ionizing  
shock wave in argon 3935
- Perona, J. J.  
*See* Cassell, R. E., Jr. 2143
- Perren, S. M.  
The reaction of cortical bone to  
compression 9208  
A dynamic compression plate 9209  
A method of measuring the change  
in compression applied to living  
cortical bone 10026
- Perret, W. R.  
*See* Sisemore, C. J. 9124
- Perrin, F. M.  
On higher-order numerical methods  
for nonlinear two-point boundary  
value problems 3302
- Perrone, A. J.  
Deep-ocean ambient-noise spectra  
in the Northwest Atlantic 2361
- Perrone, N.  
An experimental verification of  
limit analysis of short cylindrical  
shells 1812
- Perry, A. E.  
Rough wall turbulent boundary  
layers 477
- Perry, A. J.  
*See* Burgel, B. 8527
- Perry, D. H.  
A flight simulator for research into  
aircraft handling characteristics 3837  
An analysis of some major factors  
involved in normal take-off per-  
formance 5591  
The airborne path during take-off  
for constant rate-of-pitch maneu-  
vers 9715
- Perry, E. H.  
*See* Culick, F. E. C. 5718
- Persen, L. N.  
*See* Ghildyal, C. D. 478
- Persidskii, S. K.  
Investigation of stability of solutions  
of some nonlinear systems of dif-  
ferential equations 8417
- Persson, P. A.  
The influence of borehole diameter  
on the rock blasting capacity of  
an extended explosive charge 1904
- Pervozvanskii, A. A.  
Some supplements to the theory of  
optimum transformations of ran-  
dom functions 9303
- Perz, D. A.  
*See* Valgora, M. E. 3995
- Perzyna, P.  
On thermodynamics of a rate sensi-  
tive plastic material 8326  
*See also* Olszak, W. 3369  
Olszak, W. 5820  
Olszak, W. 8669
- Peschanskii, V. A.  
*See* Varshavskii, V. I. 7692
- Peshat, V. F.  
Dynamic calculation of hydraulic  
mechanisms with variable mass re-  
duction 376
- Peshmaldzhyan, D. V.  
On the bending of a transversely-  
isotropic plate with a circular hole 9391
- Peskoff, A.  
Theory of remote sensing of clear-  
air turbulence profiles 4067
- Pestel, E. C.  
Statics 5963
- Petcu, V.  
Generalization of the optimum  
plastic design theory of reinforced  
concrete continuous structures 5396  
Minimum moment redistribution  
theory of reinforced concrete con-  
tinuous structures 5397
- Peter, K.  
Influence of materials inhomogenities  
on brittle fracture 3541
- Peterka, F.  
*See* Pust, L. 7829
- Peterka, J. A.  
Effects of sound on separated flows 3122  
Natural convection from a hori-  
zontal cylinder at moderate  
Grashof numbers 8999
- Peters, D.  
Carbon fiber gears whirl away the  
high cost myth 4507
- Peters, D. C.  
Fluid flow in the region of anchor  
agitator blades 1187
- Peters, G.  
*See* Martin, R. S. 8442
- Peters, O.  
Problem of the operational reliabil-  
ity of flight control systems and  
automatic piloting of aircraft 9287
- Petersen, I. F.  
Recovery of a function in the class  
of functions with reproducing  
kernel 4178
- Peterson, C. W.  
An experimental study of laminar  
hypersonic blunt cone wakes 6345
- Peterson, D. A.  
*See* Winter, J. M. 4785
- Peterson, E. L.  
An economic interpretation of  
duality in linear programming 8481
- Peterson, E. W.  
On the relation between the shear  
stress and the velocity profile after  
a change in surface roughness 1546
- Peterson, J. B.  
*See* Zimmerman, A. W. 9673
- Peterson, J. B., Jr.  
Boundary-layer velocity profiles  
downstream of three-dimensional  
transition trips on a flat plate at  
Mach 3 and 4 3746
- Peterson, J. P.  
Buckling of stiffened cylinders in  
axial compression and bending: A  
review of test data 2663
- Petrangeli, M. P.  
A calculation method for arch  
bridges with stiffening beam based  
on the second order elastic theory 9594
- Petrasovits, G.  
*See* Awad, A. 1055
- Petre, A.  
Vertical vibrations of oscillating  
beams with the consideration of  
the dynamic buckling effects 9438
- Petrenko, I. Yu.  
Combined thermal analysis of dis-  
persed and fused substances 2276
- Petrich, R. P.  
*See* Gent, A. N. 2596
- Petrick, M.  
*See* Linehan, J. H. 7447
- Petrie, C. J. S.  
*See* Pearson, J. R. A. 7197
- Petroff, D. N.  
*See* Gaspers, P. A., Jr. 8284
- Petrokovets, M. I.  
*See* Starzhinskii, V. E. 9612
- Petroski, H. J.  
Controllable states of elastic heat  
conductors 3154
- Petrov, A. G.  
*See* Voinov, O. V. 7436
- Petrov, G. D.  
Laser methods for measuring plasma  
density 5754
- Petrov, V. I.  
Oscillations of ribbed cylindrical  
shells 5231
- Petrov, V. M.  
Determining the equilibrium form  
of a liquid subject to gravity  
forces and surface tension 7341
- Petrov, Yu. P.  
Calculation for flexure and stability  
of elastic rectangular orthotropic  
plates 4266
- Petrova, A. G.  
*See* Abramov, L. T. 9503
- Petrovichev, V. I.  
*See* Kokorev, L. S. 6368
- Petrovskii, A. A.  
*See* Surinov, Yu. A. 8211
- Petrovskii, B. S.  
*See* Shreiber, G. K. 7942
- Petrovsky, A. M.  
*See* Maslov, E. P. 2495
- Petrzilka, V. A.  
High-frequency forces acting on the  
boundary of a magnetoactive  
plasma and vacuum 9879
- Pettigrew, M. J.  
An evaluation of weldable strain  
gages in nuclear-reactor environ-  
ments 7923

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Petukhov, S. V.  
Effect of the composition of the flight path measurements on the correction of the flight path of space vehicles 5768
- Petukhov, Yu. I.  
Some two-dimensional flows of a heavy liquid 7187
- Peyret, R.  
Sub-Alfvénic duct flow with a non-uniform magnetic field 2301
- Pfeffer, A.  
See Wlodarski, A. 6664
- Pfeffer, R. L.  
See Fowles, W. W. 7583
- Pfeifer, H.-J.  
Investigation of impact with a laser interferometer 1868
- Pfeiffer, E. A.  
An experimental device to provide substitute tactile sensation from the anaesthetic hand 6747
- Pfeiffer, F.  
Linearized free oscillations of fuel in arbitrary containers 4654
- Pfenninger, W.  
Flow disturbances induced by low-drag boundary-layer suction through slots 6387
- Pfrang, E. O.  
See MacGregor, J. G. 7115
- Phasook, S.  
See Sarpkaya, T. 8848
- Phil, D.  
See Bhaumik, H. 8463
- Philipp, B.  
See Linow, K.-J. 8020
- Philpizik, W.  
Variational methods in the theory of eigen vibrations of elastic systems and some applications 188
- Phillips, A.  
See Sierakowski, R. L. 3375
- Phillips, B. S.  
See Moseley, W. C., Jr. 2159
- Phillips, H.  
See Morris, E. B. 5721
- Phillips, J. T.  
See Lee, I. K. 6896
- Phillips, O. M.  
See Kato, H. 2909
- Phillips, R. S.  
See Lax, P. D. 6756
- Phillips, W. L.  
The influence of specimen size, polycrystal grain size, and yield point behavior on the fatigue strength of low-carbon steel 4414
- Phinney, R. A.  
The effect of a velocity gradient at the base of the mantle on diffracted P waves in the shadow 2408
- Phok, M.  
See England, G. L. 5823
- Pi, W. S.  
See Hwang, C. 4302
- Pian, T. H. H.  
Basis of finite element methods for solid continua 9565  
See also Tong, P. 2576
- Piatti, G.  
See Beghi, C. 9949
- Piau, J.-M.  
Rigidity and stability of hydrostatic gas bearings 2440
- Picci, G.  
See Marchesini, G. 8602
- Pichal, M.  
Reynolds stresses in the turbulent boundary layer in a high intensity turbulent flow 8913
- Piechocki, W.  
On the existence of solutions for heated nonlinear orthotropic inhomogeneous shallow shells 9143
- Piekarski, K.  
Fracture of bone 9207
- Pieper, K.  
Investigation of silo loads in measuring models 1060
- Pierburg, A.  
Vergaser für Kraftfahrzeug-Motoren, Vierte neubearbeitete und erweiterte Auflage (Carburetors for automotive engines, 4th edition) 8251
- Pierce, A. D.  
Atmospheric correction factor for sonic-boom pressure amplitudes 6627
- Pierce, F. J.  
Generalized isentropic variable area compressible flow functions for variable specific-heat diatomic gases 2088  
Microscopic thermodynamics: The kinetic theory and statistical thermodynamics of dilute gas systems 4697
- Piercy, J. E.  
Role of the vibrational relaxation of nitrogen in the absorption of sound in air 3132
- Pieri, G.  
Mixing of fluids from annular concentric nozzles and relative mixing indexes 5530
- Piermattei, R.  
Dispersion of Rayleigh waves for purely oceanic paths in the Pacific 8361
- Pierre, D. A.  
Optimization theory with applications 2527
- Pierson, B. L.  
A discrete-variable approximation to optimal flight paths 4640
- Pietruszewicz, S. A.  
Notes on further experiments on crack propagation in tensioned plates subjected to high intensity noise 9526
- Pietsch, C.  
Some remarks to the shear strength of granular solids 6129
- Pietsch, W. B.  
Adhesion and agglomeration of solids during storage, flow and handling: A survey 8338
- Pifko, A.  
A finite-element method for the plastic buckling analysis of plates 4277
- Pignataro, M.  
See Mazzolani, F. M. 6248
- Pignedoli, A.  
Motion of a rigid body with variable mass, free to move in space 6819
- Pih, H.  
Photoelastic studies of ultrasonic waves in a large plate 1101  
Experimental studies of vibration of axially excited circular cylindrical shells containing fluid 9739
- Pik, O. K.  
The kinetics of fuel evaporation and heat generation in a diesel engine with a film mixture formation 8221
- Pike, J.  
The lift and drag of axisymmetric bodies in Newtonian flow 486  
Wind tunnel tests on six wing-body models at M=4 7328
- Pikus, V. Yu.  
See Miropolskiy, Z. L. 5684
- Piliya, A. D.  
Wave conversion in a weakly inhomogeneous plasma 607
- Pilkey, W. D.  
Line solution technology as a general engineering approach to the static, stability, and dynamic response of structural members and mechanical elements 1002
- Pilkington, T. C.  
See Metz, W. C., Jr. 2466
- Pimsner, V.  
See Vasilescu, C. A. 8958  
Vasilescu, C. A. 9847
- Pindera, J. T.  
See Kiesling, E. W. 2770
- Pinegin, S. V.  
Fracture of hard steels due to repeated contact loading 4442  
Contribution of Soviet scientists to the development of the theory of contact stress and strain 10015
- Pines, B. Ya.  
Device for precision measurement of creep strain at high temperatures 9155
- Pinsker, I. Sh.  
See Malinovskii, L. G. 1593
- Pinsker, W. J. G.  
The dynamics of aircraft rotation and lift-off and its implication for tail clearance requirements, especially with large aircraft 2929  
The landing flare of large transport aircraft 6417
- Pinson, L. D.  
Evaluation of a finite-element analysis for longitudinal vibrations of liquid-propellant launch vehicles 6967

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Piontkovskii, A. A.  
Problem of efficient allocation of orders 779  
*See also* Kirillova, L. S. 9298
- Piontkovskii, V. M.  
Method of studying fatigue strength of large specimens on asymmetric cycles with average compressive stress 7092
- Pipes, L. A.  
Matrix-computer methods in engineering 1603  
Cyclical functions and permutation matrices 3267
- Pipkin, A. C.  
*See* Gurtin, M. E. 1315
- Piquemal, J.  
*See* Escande, L. 501
- Piranashvili, Z. A.  
On the problem of interpolation of random processes 2472
- Piraprez, E.  
*See* de Kozinsky, V. 3672
- Pirmamedov, V. G.  
A different method of solution of an unsteady problem of filtration with a movable boundary 9159
- Pirotton, G.  
Combined compression bending and simple bending of an annular section of reinforced concrete 7966
- Pirvics, J.  
*See* Castelli, V. 6731
- Pisacane, V. L.  
*See* Whisnant, J. M. 6613  
Whisnant, J. M. 9110
- Pisarenko, G. S.  
Method of investigating the strength of refractory materials and alloys in vacuo in the case of variable loads and stresses 686  
High-temperature strength of materials 691  
Set-up for investigating the microhardness of materials at high temperatures 695
- Pitimada, D.  
*See* Cumo, M. 3861
- Pitt, J. C.  
The development of systems for continuous optimal control of flotation plants by computer 55
- Pittner, E. V.  
Creep buckling of simply supported moderately thin circular cylindrical shells 3423
- Pitts, D. R.  
Transient film boiling of water on a horizontal wire 1362
- Pivko, S.  
On nonlinear effects in slender body theory 4636
- Pivskii, I. M.  
High temperature drying of voluminous gypsum-cement pozzolanic elements 3878
- Plakhov, A. G.  
Investigations of the mechanism of beam heating of a plasma in a magnetic mirror trap 3959
- Plakhov, D. D.  
Transmission of a sound wave through a laminated plate reinforced with stiffness members 3134
- Plakhtienko, N. P.  
*See* Kononenko, V. O. 8604
- Plapp, J. E.  
Engineering fluid mechanics 2849
- Plate, E.  
A note on the celerity of wind waves in a water current 9981
- Plate, E. J.  
Experiments on the generation of small water waves by wind 1263  
Rotary flow meter as turbulence transducer 8918  
*See also* Arya, S. P. S. 2418
- Platten, J.  
A variational formulation for thermal diffusion problems 8204
- Platthy, P.  
Aspects and suggestions for the design specifications of statically loaded welded connections 3654
- Platus, D. H.  
Angle-of-attack convergence and windward-meridian rotation rate of rolling re-entry vehicles 9113
- Plaut, R. H.  
*See* Infante, E. F. 1816  
Hsu, C. S. 2711
- Pleban, E. J.  
Analytical heat transfer investigation of insulated liquid methane wing tanks for supersonic cruise aircraft 2980
- Plechkov, V. M.  
Preliminary results of determining the moisture content of the atmosphere from measurements of its thermal radio emission near  $\lambda = 1.35$  cm 4952
- Pleshanov, A. S.  
On crises in MHD generators 3968  
General solutions in magnetohydrodynamic flow theory in a hypersonic approximation 6560
- Pleshchenkov, G. A.  
*See* Kovalev, S. D. 2978
- Plett, E. G.  
Interaction of electromagnetically produced shocks with detonation waves 4797
- Plevako, V. P.  
A point force inside a pair of cohering half-spaces 7015
- Pliss, D. A.  
Theory of vibration separation 2704
- Pliss, V. A.  
Families of periodic solutions of dissipationless systems of second-order differential equations 1611
- Plotkin, K. J.  
*See* George, A. R. 4866
- Plotnikov, M. M.  
Effect of the Poisson coefficient on the stress field of an inhomogeneously-anisotropic cylinder 5085  
Stresses in a problem of an inhomogeneously-anisotropic cylinder 5086
- Plotnikov, V. A.  
*See* Nebersnov, V. I. 4193
- Plummer, W. T.  
Infrasonic resonances in natural underground cavities 4878
- Plumpton, C.  
*See* Ferraro, V. C. A. 5732
- Plunkett, R.  
*See* Wu, C. -H. 6992
- Pnueli, D.  
Lower bound to the  $n$ th eigenvalue of the Helmholtz equation over two-dimensional regions of arbitrary shape 1628
- Pobedria, B. E.  
On the solvability of problems of the theory of elasticity of contact type 9340
- Pochkin, A. E.  
*See* Gavrilenko, B. A. 4665
- Pochtennyi, E. K.  
Comparative tests on tubular specimens under pressures applied by various media 3578  
*See also* Kalimov, A. I. 5374
- Pochtman, Iu. M.  
*See* Baranenko, V. A. 9370
- Podakov, A. S.  
Assaying optimal values of the parameters of one-stage systems of processing operative information 3332
- Podfilipski, J.  
*See* Kowalewski, G. 3038
- Podilchuk, Yu. N.  
Deformation of an elastic spheroid 3350  
The state of stress in an infinite medium with an elastic ellipsoidal inclusion 5991
- Podkorytov, V. A.  
*See* Denisov, Yu. A. 6237
- Podtynkov, I. I.  
*See* Grishin, S. D. 8240
- Podyapolskiy, F. S.  
The generation of linear gravitational waves in the ocean by seismic sources in the crust 4064
- Pogopetskaya, L. N.  
Tepló i massoobmen v khimicheskoi tekhnologii (Heat and mass exchange in chemical engineering) 3892
- Pogosyan, A. K.  
Modelling the external friction process in shoe type brakes 7152
- Pokorny, M.  
New devices on measuring of airfoil cascades in the aeronautical research and test institute high-speed wind tunnel 3761
- Pokorny, V.  
Effect of differential gearings on aileron balance of the control forces 4644
- Pokrovskii, B. V.  
Optimum surface finish on centrifugal pump flow channels 3807

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Pokrovskiy, S. M.  
See Ivanov, I. T. 5675
- Polak, E.  
See Wong, K. Y. 795  
Canon, M. D. 5942
- Polak, J.  
Electrical resistivity of cyclically deformed copper 5337
- Polakowski, N. H.  
Principles of self control of product flatness in strip rolling mills 4378
- Polasek, J.  
See Kesner, Z. 2375
- Polder, J. W.  
Overcut: A new theory for tip interference in internal gears 8800
- Polevtseva, V. S.  
On the experimental analysis of normal impact against a flexible membrane 1878
- Politzer, J. L.  
See Knackstedt, W. F. 2356
- Pollack, I.  
Effect of masking noise and pulse level upon jitter detection 4876
- Pollok, J.  
See Hausler, E. 7929
- Polosukhin, B. M.  
Algorithm for the synthesis of combinational circuits in digital automata using homogeneous microelectronic logical structures 75
- Polovin, R. V.  
Magnetosonic waves 3072  
Nonlinear magnetohydrodynamic waves 6556  
See also Demutskii, V. P. 5746
- Polovina, I. P.  
See Malkevich, M. S. 726
- Polowczyk, M.  
Semiconductor resistance-type strain-gages 305
- Poltavskii, L. N.  
See Butkovskii, A. G. 4177
- Polyak, D. G.  
Calculating the reliability of restorable systems while taking into account the working shifts of maintenance personnel 3333
- Polyak, R. A.  
See Zukhovitskii, S. I. 2483
- Polyakov, L. M.  
Machine for micro-mechanical tests of materials 6223  
Method for measuring the volume changes in mechanical tests on materials 7950
- Polyakov, P. S.  
See Dlugach, M. I. 9393
- Polyakov, S. N.  
A method of analysis of true strain diagrams 8739
- Polyakov, V. E.  
Realization of threshold and symmetrical (composite) functions 4188
- Polyakov, Yu. A.  
Stagnation-point heat-transfer studies with a blunt body in a shock tube 7427  
Investigation of heat-exchange in the region of the critical point of a blunted body by the shock-tube method 9812
- Polyanskiy, A. F.  
The laminar flow of a gas in channels of varying section 3732
- Polydorova, M.  
Determining the concentration of ultrafine aerosol particles by means of the thermal precipitator 4048
- Pomazan, V. M.  
Methods for estimating the noise immunity of remote-control systems with feedback channel 1681
- Pomeroy, R. J.  
The effect of anticlastic bending on the curvature of beams 9364
- Pomraning, G. C.  
Radiant heat transfer with scattering 552  
Radiative transfer in a moving fluid 8212
- Ponomarenko, I. F.  
Automated viscosimeter for determining the viscosity of structured liquids 1297
- Ponomarenko, Iu. B.  
On the stability of a plane Couette flow 2067  
Processes of formation of hexagonal convective cells 4732
- Ponomarenko, V. I.  
See Ponomarenko, I. F. 1297
- Ponomarev, B. V.  
Bending of rectangular plates of nonlinearly elastic materials, with unequal expansion and contraction 5151
- Ponomarev, Yu. V.  
See Landa, P. S. 5757
- Ponter, A. B.  
The boiling crisis in saturated and subcooled pool boiling at reduced pressures 1359  
Sound emission and heat transfer in low pressure pool boiling 4747
- Ponter, A. R. S.  
An energy theorem for time dependent materials 6003
- Ponyatov, V. A.  
Calculating the optimum characteristics for economisers in steam turbine-gas turbine plants 8250  
See also Andryushchenko, A. I. 5723
- Poodle, T.  
See Fleming, G. 8844
- Pook, L. P.  
Some fracture mechanics correlations 1920  
Effect of hardness and tensile mean stress on fatigue crack growth in beryllium copper 3553
- Poostoshniy, A. F.  
See Stumpf, V. M. 4954
- Pop, I.  
On the nonstationary boundary layer near a turning disk 2906
- Popa, O.  
See Anton, I. 8161
- Pope, R. B.  
Stagnation-point heat transfer in arc-heated helium and argon 3895
- Pope, R. G.  
The effect of sinkage rate on pressure sinkage relationships and rolling resistance in real and artificial clays 6131
- Pope, R. L.  
The effects of recombination in expanding gas flows 7257
- Popelyanskii, Yu. L.  
See Chernashkin, V. G. 6235
- Popescu, H.  
Effect of reinforcement strain hardening on the bearing capacity of reinforced concrete members 1121  
The behavior of statically indeterminate reinforced concrete frames in the plastic range 4465  
Effect of the live load variation on the relative safety indices 9583
- Popkov, Yu. S.  
Statistical models of nonlinear systems 1651
- Popov, A. V.  
Numerical solution of the problem of plane wave diffraction by the rounded edge of a semiinfinite plate 3130  
Methods for testing locomotive weighbridges 3629  
Numerical solution of the wedge diffraction problem by the transverse diffusion method 6633
- Popov, E. D.  
Ultrasonic interferometer for measuring the velocity of ultrasound in rarefied gases up to 20,000 MHz/atm 6647
- Popov, E. P.  
See Lin, M. S. 1806  
Khojasteh-Bakht, M. 9400
- Popov, G. Ia.  
On the method of orthogonal polynomials in contact problems of the theory of elasticity 7711
- Popov, G. Ya.  
On an approximate method for the solution of the contact problem for annular punch 3362
- Popov, M.  
On the determination of the pitch-chord ratio of a plane cascade of thin profiles 8953
- Popov, M. M.  
The asymptotic behavior of certain subsequences of eigenvalues of boundary value problems for the Helmholtz equation in higher dimensions 8422
- Popov, P. I.  
Asymptotic method for calculating the reliability of engineering systems 8460
- Popov, V. I.  
See Khabakhpasheva, Ye. M. 1150

- Popov, V. N.  
Experimental determination of the compressibility of nitrogen-helium mixtures 9777
- Popov, V. S.  
Effect of crystal structure and degree of dispersion of alloy constituents on the resistance to damage by abrasive wear 2436  
See also Azarkin, V. A. 224
- Popov, V. V.  
Temperature inhomogeneities as a possible cause of earthquakes 4060
- Popova, T. N.  
See Khasin, G. A. 1915
- Popovich, V. V.  
See Chaevskii, M. I. 1940
- Popovich, Z.  
Testing of self-alignment of the pads of Michell thrust bearing on a test rig 1574
- Popovics, S.  
Fracture mechanism in concrete: How much do we know? 1916
- Popp, S.  
Roshko's model in a channel 9651
- Poppe, W.  
See Hollingsworth, C. A. 4530
- Poppitz, J. V.  
Velocity and displacement of explosion-induced earth tremors derived from acceleration 7563
- Porat, I.  
Optimal damping of a flexibly-mounted rotor 6974  
Deflection of helical springs 9610
- Poreh, M.  
Turbulent heat transfer to dilute polymer solutions 2913  
Studies in rheology and hydrodynamics of dilute polymer solutions 6296
- Porkhun, L. M.  
Transverse oscillations of a beam under the influence of a system of pulsating forces 2681
- Porkolab, M.  
Turbulent diffusion experiments in a thermal plasma 599
- Porochnicki, J.  
See Gundlach, W. R. 5725
- Porodnov, B. T.  
Two-dimensional flow of a Maxwellian gas 8080
- Porter, B.  
Eigenvalue sensitivity of modal control systems to loop-gain variations 3311  
Performance characteristics of multi-variable model-reference adaptive systems synthesized by Lyapunov's direct method 7671  
See also Crossley, T. R. 6784
- Porter, J. W.  
See Moseley, P. E. 571
- Porter, R. E.  
See Schenck, T. 4123
- Portfors, E. A.  
Isotropy in initial period grid turbulence 3753  
See also Goines, W. C. 5452
- Portnov, I. G.  
Determination of the rigid-state zone upon removal of load from a viscoplastic beam 1039
- Portnov, M. L.  
Remote control system for information exchange between a control computer and technological plants of an industrial enterprise 56
- Portnov, V. D.  
See Bakalin, Yu. I. 2196
- Poruchikov, V. B.  
Solution of the problem of the diffraction of an acoustic wave by a cone 2372
- Posel, K.  
The p-v diagram in cardiology: Part 1, Introduction of the concepts of the compliance locus and the myocardial-bearing-down-ability: Part 2, Desirable and undesirable responses of the heart to exercise 9215
- Poskitt, T. J.  
The analysis of multispan suspension bridge systems 1999  
The consolidation of saturated clay with variable permeability and compressibility 4341  
Graphical construction of settlement curves for sand drains 8667
- Post, D.  
Optical analysis of photoelastic polariscopes 6209
- Postelnicu, T.  
Stochastic aspects in diagnosis and learning 776
- Postnikov, S. N.  
The role of electrical phenomena in friction and cutting of metals 5314
- Potapov, V. N.  
Viscoelastic creep of stiffened cylindrical shells 943
- Potashov, O. E.  
Apparatus for performing prolonged bending tests: Exchange of experience 7088
- Potter, J. H.  
The totally supercritical steam cycle 4702  
The Joule-Thomson effect in superheated steam 9765
- Potter, J. L.  
Observations on the influence of ambient pressure on boundary-layer transition 1231
- Pottsepp, L.  
Optimal lift control of a hypersonic glider 3771
- Potzl, K.  
See Reiter, R. 10019
- Poulos, H. G.  
The behavior of axially loaded end-bearing piles 3510  
The behavior of a rigid circular plate resting on a finite elastic layer 4347
- The influence of a rigid pile cap on the settlement behavior of an axially-loaded pile 4355  
See also Mattes, N. S. 5304
- Povarnitsyn, M. S.  
Calculation of the temperature field in a plane channel with nonuniform heating of thermally conducting walls 2246
- Povarov, O. A.  
See Filippov, G. A. 6537
- Povinelli, F. P.  
See Povinelli, L. A. 2890  
Hersch, M. 5528
- Povinelli, L. A.  
A study of helium penetration and spreading in a Mach 2 airstream using a delta wing injector 2890  
See also Hersch, M. 5528
- Povolo, F.  
A Marx three component oscillator for internal friction measurements at low and high temperatures in high vacuum 221
- Povolotskii, L. V.  
See Kaplan, M. P. 1283
- Powars, C. A.  
See Johnston, J. P. 9668
- Powe, R. E.  
Free convective flow patterns in cylindrical annuli 8997
- Powell, B. E.  
Measurement of higher-order elastic constants, using finite deformations 6824
- Powell, D. C.  
See Kao, S.-K. 4937
- Powell, E. A.  
Solution of linear combustion instability problems using the Galerkin method 6524
- Powell, G. H.  
Theory of nonlinear elastic structures 5375
- Powell, J. L.  
Hypersonic shapes of maximum drag for a given heat transfer rate 3767
- Powell, W. R.  
A note on yield curves in cyclic work softening 142
- Power, D. V.  
Analysis of Earth motions and seismic sources by power spectral density 8353
- Power, G.  
See Kingston, J. G. 3061
- Powers, J. P.  
See Wade, G. 665
- Powers, S. A.  
See Chu, C.-W. 445
- Powers, W. F.  
Canonical transformation applications to optimal trajectory analysis 2344
- Poyer, J.  
Biomedical sciences instrumentation: Vol. 3 3239

- Pozdeev, A. A.  
See Golovanov, V. P. 185
- Pozdniakovich, E. V.  
See Konosevich, B. I. 2551
- Prabhakara, M. K.  
See Iyengar, K. T. S. R. 6832
- Prachand, N. M.  
See Saether, K. 337
- Pradhan, B. R.  
Variation of modulus of elasticity with frequency of vibration 9343
- Prager, W.  
Optimal design of multipurpose structures 2789  
See also Feldmann, J. W. 82  
Sheu, C. Y. 332  
Hegemier, G. A. 333  
Nayfeh, A. 1883  
Sheu, C. Y. 1995  
Sheu, G.-Y. 4251  
Shieh, R. C. 4324  
Augusti, G. 5981
- Praisler, G.  
See Huidu, T. 2774
- Prakash, A.  
See Arya, A. S. 7986
- Prakash, S.  
Laminar flow in an annulus with arbitrary time-varying pressure gradient and arbitrary initial velocity 1179  
Nonsteady parallel viscous flow through a straight channel 5478  
Design of a typical machine foundation by different methods 7823
- Prasad, P.  
A class of one-dimensional steady-state flows and the general shock-structure problem in radiation-gas-dynamics 2098  
See also Bhatnagar, P. L. 5517
- Prasad, S. N.  
Some theorems on stability of discrete circulatory systems 177  
The usefulness of adjoint systems in solving nonconservative stability problems of elastic continua 1790
- Prasad, U. R.  
See Kesavan, H. K. 2494
- Prato, C. A.  
Shell finite element method via Reissner's principle 6038
- Praît, J. P.  
New two-point calibration method for platinum resistance thermometer for the range 75-400 K 7399
- Prawel, S. P., Jr.  
See Ketter, R. L. 6771
- Predebon, W. J.  
Unsteady flow in a tube with prescribed discharge 2049
- Predvoditelev, A. S.  
High temperature properties of gases: Physical gasdynamics, thermodynamics and physics of combustion 5508  
Theory of flameup of two-phase mixtures 5703  
Conditions of ignition in a fuel mixture of gases 8233
- Preis, G. A.  
See Smertyak, Yu. L. 4975
- Preisler, G.  
Photoelasticity applied in the theoretical strength calculation of some ships 6214
- Prem, L. L.  
Outlook for binary power plants using liquid-metal MHD 8280
- Preminger, J.  
Regulator systems with pulse-sign-modulation of the sampled error 9272
- Preobrazhenskii, V. P.  
Measuring the rapidly changing temperatures of a gas flow by means of quick-response thermal detectors 534  
Methods of calculating the dynamic characteristics of measuring systems, including pressure gages and differential pressure gages 2180
- Presley, L. L.  
See Omura, M. 9666
- Pretlove, A. J.  
Acousto-elastic effects in the response of large windows to sonic bangs 3448  
A simple approach to coupled panel-cavity vibrations 9925
- Preucil, M.  
Interpolating circuits and their simulation on analog computer 8455
- Prferl, D. J.  
Thermodynamic and transport properties of air and the combustion product of natural gas and of ASTM-A-1 fuel with air 1403
- Price, A. J.  
See Crocker, M. J. 1855  
Crocker, M. J. 6623
- Price, C. F.  
A method for "closing the loop" in explicit guidance systems 9286
- Price, D. B.  
See Miller, G. K., Jr. 4850
- Price, E. W.  
Relevance of analytical models for perturbation of combustion of solid propellants 573
- Price, G. R.  
Stability of the cochlear microphonic over time in an anesthetized preparation 4117
- Price, H. S.  
See Perrin, F. M. 3302
- Price, J.  
The distribution of fluid velocities for randomly packed beds of spheres 3164
- Price, J. T.  
See Garrison, J. M. 4540
- Prichinskiy, A. Z.  
See Babukha, G. L. 2074
- Pride, R. A.  
Influence of various fabrication methods on the compressive strength of titanium skin-stringer panels 3592
- Priebs, R.  
See Rossgger, E. 5767
- Priha, S.  
Hydraulic properties of small unlined rock tunnels 5453
- Prikhodko, E. M.  
See Eremenko, A. V. 3397
- Prikhodko, I. M.  
See Levin, Ya. A. 2233
- Primak, M. E.  
See Zukhovitskii, S. I. 2483
- Primrose, E. J. F.  
Spatial motions: Part 1, Point paths of mechanisms with four or fewer links 1140
- Pringle, J. W. S.  
The contractile mechanism of insect fibrillar muscle 1585
- Pringle, R., Jr.  
Stability of the force-free motions of a dual-spin spacecraft 2346
- Prins, C. A.  
Momentum flux in two-phase flow 2860
- Prinz, R.  
The determination of the fatigue life of helicopter components 9104
- Prior, R. E.  
A mathematical model of the passive properties of bladder muscle 6741
- Pritchard, A. J.  
On nonlinear stability theory 6754
- Pritchard, C.  
The effect of humidity on the friction and life of unbonded molybdenum disulphide films 1567  
Abrasion resistance of hard anodized aluminum 2435
- Pritchard, D. W.  
Dispersion and flushing of pollutants in estuaries 3673
- Pritchard, W. G.  
The motion generated by a body moving along the axis of a uniformly rotating fluid 7228
- Privarnikov, A. K.  
See Paltun, N. V. 3542
- Privarnikov, Yu. K.  
See Manevich, L. I. 198
- Probert, S. D.  
Heat and mass transfers in solid helium 9026  
See also Jones, M. H. 4089
- Probst, R. F.  
See Laumbach, D. D. 3117
- Proffit, R. L.  
See Hergert, W. F. 9041
- Profos, P.  
Determination of optimal controller parameters for stochastic variations of external disturbances 5954
- Prokhorenko, V. I.  
See Sudorov, I. M. 3108

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Prokofev, V. N.  
Dynamics of a hydraulic actuator with nonlinear damping properties (small self oscillations at "creeping" velocities) 2500  
Forced vibration calculations for hydraulic drives 3635  
Forces in the control system of axial-piston hydraulic engines without Cardan drive 6449
- Prokopov, V. K.  
See Gruzdev, Iu. A. 4270
- Prokopovich, I. E.  
Raschet tonkikh uprugikh tsilindricheskikh obolochek i prizmaticheskikh skladok (The calculation of thin elastic cylindrical shells and prismatic folds) 926
- Pronkin, A. F.  
See Ostapchuk, I. I. 5832
- Pronko, V. G.  
See Leonova, G. M. 2266
- Proshutinskii, A. P.  
Procedure for plotting the stability regions of a natural circulation loop with boiling 5486
- Proskuriakov, A. P.  
The structure of the periodic solutions of a quasi-linear self-contained system with several degrees of freedom in the case of differing, but partly noncommensurate frequencies 9426
- Proskuryakov, Yu. G.  
Dimensions of hollow blanks for rolling external threads 3524  
See also Melnikov, B. A. 5432
- Protasov, V. D.  
Study of the strength of glass-reinforced plastics in the plane stress state 111
- Protsailo, M. Ya.  
Results of tests on an industrial p.f. concentrator 8244
- Protsenko, A. M.  
Solution of a problem of linear creep of solid media 5099
- Protsenko, V. S.  
Torsion of an elastic half-space with an elastic modulus which varies as a power-function 2577
- Protskii, N. E.  
Improvements on the method of testing pipes using annular specimens 4459
- Protsyshin, B. N.  
The effect of the interaction of a moving film of liquid and an air flow on heat-mass transfer 1392
- Protte, W.  
Lateral buckling of yielding arches with rectangular cross section 6058  
The buckling problem of an obliquely stiffened rectangular plate 6060
- Prudnikov, A. G.  
See Zamyatina, N. A. 5573
- Prunieras, J.  
On a particular case of regular networks of crossed beams 3387
- Pruppacher, H. R.  
See Steinberger, E. H. 6329
- Prusakov, A. P.  
Flexure of sandwich plates of asymmetric structure with a rigid filler 9397
- Prussing, J. E.  
Illustration of the primer vector in time-fixed orbit transfer 3989  
Optimal four-impulse fixed-time rendezvous in the vicinity of a circular orbit 4003
- Prusty, S.  
A new approach to analysis of certain two-variable nonlinear problems 4144  
A numerical technique of third order approximation for nonlinear analysis 7649
- Pryakhin, V. V.  
Effect of steam wetness on velocity stage characteristics 1380
- Przemieniecki, J. S.  
Discrete-element methods for stability analysis of complex structures 323
- Przybyszewski, J. S.  
Friction and contact resistance during sliding in vacuum of some low-resistivity metals lubricated with sputtered molybdenum disulfide films 4093
- Pshenichnikov, A. M.  
See Portnov, M. L. 56
- Puchkov, P. I.  
Heat transfer and resistance in extended, longitudinally swept heating surfaces 4750
- Pudoveev, A. P.  
Diagram for optimal design of axisymmetric supersonic diffusers with external compression using system of shocks 1213
- Pugh, E. R.  
See Patrick, R. M. 3947
- Pugh, P. G.  
Notes on the automatic control of a blowdown wind tunnel 3829
- Puhringer, O. M.  
On the construction of large converters 8784
- Pujara, K. K.  
Vibrations of circular sandwich plates 4300
- Pujol, Y.  
Characteristics of gaseous explosive detonations 9034
- Pukov, V. A.  
See Dubnov, L. V. 5787
- Purdy, D. M.  
Computer graphics techniques for structural shell analysis 944
- Puri, V. K.  
See Prakash, S. 7823
- Puris, B. I.  
See Luikov, A. V. 386  
Luikov, A. V. 8018
- Purssell, N.  
Heating and ventilating of underground areas 6478
- Purushotham, C. M.  
On the constitutive equation of quasilinear theory in elasticity 8513
- Pusch, W.  
Flow losses in reciprocating compressor plants 3805
- Pushkarev, O. E.  
The optimum dynamic regimes of MGD energy converters 4831
- Pushkarev, V. V.  
Effect of sulfiding methods on the friction characteristics and wear of iron-graphite materials 4096
- Pushkina, O. L.  
Breakdown of liquid film motion in vertical tubes 8217
- Pust, L.  
Proceedings of the Vth conference on dynamics of machines, held in Liblice, Oct. 15-17, 1968, on occasion of the 50th anniversary of CSSR 7829
- Puszer, A.  
See Graczyk, Cz. 6479
- Putre, H. A.  
Computer solution of unsteady Navier-Stokes equations for an infinite hydrodynamic step bearing 5872
- Puttaiah, G.  
See Davids, N. 3496
- Putyatin, V. V.  
On the problem of action of random excitation on multi-dimensional mechanical system with linear elastic constraints 2710
- Pyadishyus, A. A.  
See Shlanchyauskas, A. A. 8902
- Pyatnitskii, E. S.  
New research on the absolute stability of automatic control systems: Review 5012
- Pytko, S.  
A study of the influence of different factors on the destruction through "pitting" of the elements working in conditions of contact load 8526

## Q

- Quarmby, A.  
Axisymmetric turbulent mass transfer in a circular tube 4757  
Nonaxisymmetric turbulent mass transfer in a circular tube 6514
- Quazza, G.  
Review of recent progress in digital process control techniques and applications 7674
- Quemard, C.  
See Michel, R. 8096

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Quevedo, F. R.  
See Andreasen, G. F. 10023
- Quigley, H. C.  
See Innis, R. C. 7500
- Quilghini, D.  
On the inverse Stefan problem 7627
- Quinton, P. G.  
See Burgoyne, J. H. 6519
- Quozzo, G.  
Natural vibrations and panel flutter of a rectangular plate with flexible edges 1452
- Qvale, E. B.  
A design method for oblique-flow headers for heat exchangers 5692  
An approximate solution for the thermal performance of a Stirling-engine regenerator 9830
- ## R
- Raabe, J.  
Hydraulische Maschinen und Anlagen: Teil 1, Grundlagen der hydraulischen Stromungsmaschinen (Hydraulic machines and installation: Part 1, Fundamentals of hydraulic flow machines) 7353  
Hydraulische Maschinen und Anlagen: Teil 2, Wasserturbinen: Fragen der Konstruktion und des Betriebsverhaltens; Teil 3, Pumpen (Hydraulic machines and power plants: Part 2, Water turbines, construction and operation problems; Part 3, Pumps) 8148  
See also Lotz, M. 3794
- Raats, P. A. C.  
Forces acting upon the solid phase of a porous medium 1528
- Rabaut, G.  
See Weiss, V. 3549
- Rabbe, P.  
Comparison of the fatigue strength of two types of high-strength bolts 1096
- Rabe, J.  
Force and moment resultants near the corners of flat slabs with and without edge beams 6889
- Rabinovich, G. D.  
Heat and mass transfer in drying of ground paste-like materials in a compact layer 1368  
Design of regenerators for heat transfer fluids with variable thermophysical properties 3015
- Rabinovich, L. A.  
Improving the characteristics in selective assembly 3294
- Rabinovich, R. I.  
Some problems of the oscillations of plates and shallow shells in the case of finite flexures 9431
- Rabotnov, Yu., N.  
Creep problems in structural members 6854
- Rachalski, A.  
See Jur, J. 2804
- Rachkov, V. I.  
Designing curved tube plates 3394
- Rackley, C. E.  
Derivation of cardiac mechanical parameters from serial biplane angiocardigrams 757
- Raczynski, S.  
Applicability of the tendor control (of "bang-bang" type) in the non-linear optimum systems 7678
- Radbill, J. R.  
Quasilinearization and nonlinear problems in fluid and orbital mechanics 9255
- Radchik, V. S.  
Elastic strains and stresses on the surface in the case of friction 750
- Radek, U.  
See Kuttruff, H. 4551
- Radenkovic, D.  
General thermodynamic restrictions on the behavior of continuous media 2609
- Rader, D.  
The propagation of extensional cylindrical pulses in elastic plates 1865
- Rades, M.  
Clamping length of columns in buckling 6919
- Radziszewski, B.  
See Gutowski, R. 5969
- Radkowski, P. P.  
See Cappelli, A. P. 4265
- Radomski, R.  
See Kawczynski, A. 1931
- Radowicz, A.  
Statistical theory of continuous distribution of dislocations in a linear isotropic elastic continuum 5125
- Radu, A.  
Saint-Venant's problem for non-homogeneous bars 2623
- Radugin, A. E.  
Increase of bearing capacity of short piles with time 7032
- Raes, A. C.  
Tentative method of producing diffuse sound fields 6649
- Rafalski, P.  
Transient heat conduction in multi-region systems with nonlinear boundary conditions with an application to nuclear reactors 2213  
On the variational principles for the heat conduction problem 2976  
Orthogonal projection method: Part 1, Heat conduction boundary problem 7409  
Orthogonal projection method: Part 2, Thermoelastic problem 7410
- Raff, A. I.  
See Kaplan, P. 738
- Rafibiel, N. M.  
See Ragimov, O. P. 709
- Ragaller, K.  
Steady magnetogasdynamic flows in a finite region 588
- Rager, J. P.  
On the determination of current densities in a plasma accelerated by traveling waves 1438
- Raghava Rao, C. V.  
See Sarma, L. V. K. V. 8860
- Raghavendran, R.  
See Sreenivasulu, P. 8828
- Raghu, D.  
Application of Mohr's circle in certain problems 7695
- Raghupathi Rao, C.  
A modified method of measuring sound velocities in liquids using ultrasonic interferometer 9142
- Ragimov, O. P.  
Determining the dynamic saturation pressure of a mixture of iso-octane and carbon dioxide in the presence of a porous medium 709
- Ragland, K. W.  
Two-phase detonation of a liquid layer 1469
- Ragozin, Yu. I.  
See Ivanova, V. S. 283
- Ragulskene, V. L.  
Free and damped oscillations of vibrating shock systems 3473
- Railly, J. W.  
See Murugesan, K. 4656
- Railyan, G. A.  
See Tartakovskii, D. M. 6133
- Raimond, J. F.  
Minimaximal paths in disjunctive graphs by direct search 6768
- Raithby, G. D.  
The effect of turbulence parameters and support position on the heat transfer from spheres 540
- Raj, D.  
Sampling theory 16
- Rajagopalan, R.  
Heat transfer in channel flow of a micropolar fluid 8207
- Rajan, S.  
See Strehlow, R. A. 1397
- Rajappa, N. R.  
On the motion of a bubble produced by Taylor instability of superposed fluids in a cylindrical tube 1525  
Nonlinear theory of Taylor instability of superposed fluids 8941
- Rajaratnam, N.  
Submerged nonrectangular outlets 1162
- Rajeswari, R. V.  
A theoretical analysis of the source-excited electromagnetic fields 219
- Raju, G. V. S.  
Stability analysis for a fourth-order nonlinear discrete-time system 5931
- Raju, K. N.  
See Hudson, C. M. 6191
- Rakhmatulin, Kh. A.  
Propagation of waves in multi-component media 8135
- Rakhovskii, V. I.  
See Kantsel, V. V. 3902

- Rakhshtadt, A. G.  
See Fedorovich, V. A. 7096
- Rakich, J. V.  
A method of characteristics for steady three-dimensional supersonic flow with application to inclined bodies of revolution 1199
- Rakoczy, T.  
Application of baffle plates as short diffusers for air conditioning systems 8184
- Rakov, A. M.  
See Khurstalev, B. A. 5679  
Khurstalev, B. A. 6501
- Ram, D.  
See Rath, P. C. 4863
- Ram, R.  
Unsteady flows behind hydromagnetic shocks 3069
- Ramabhadran, S.  
Determination of low speed aerodynamic characteristics of finite wings using the deep electrolytic tank 8921
- Ramachandra, H. N.  
See Krishnan, S. 6024
- Ramachandra, R.  
Effect of aspect ratio on the performance of axial flow fans 9745
- Ramachandran, A.  
See Baxi, C. B. 3859  
Srichand, M. 8167  
Nagendra, H. R. 9799
- Ramachandra Rao, A.  
An oscillatory point source in a rotating liquid 1196
- Ramachandra Rao, B. S.  
See Kolathaya, V. 8510
- Ramacharyulu, N. C. P.  
See Rao, S. K. L. 8022
- Ramaiah, M.  
See Vaish, R. K. 5169
- Ramakrishna Rao, C.  
See Escande, L. 500
- Ramalingam, K. K.  
Analyses of complex gas turbine cycle 5729
- Ramalingam, S.  
Deformation in orthogonal cutting 7891
- Ramamurthy, T.  
Crushing phenomena in granular soils 2738
- Raman, S. V.  
Solitary waves in a barotropic fluid in an open channel of arbitrary cross section 8938
- Ramana, Y. V.  
Elastic behavior of some Indian rocks under confined pressure 264
- Ramanadham, M.  
A thermodynamic estimate of the thickness of the surface layer of liquids 7392
- Ramanaiah, G.  
Influence of molecular mean free path in gas-lubricated thrust bearings 7596
- Ramana Rao, M. V.  
Mass transfer in square channels: Part I, Diffusion-controlled electrode reactions 9643
- Ramana Rao, V. V.  
See Vidyandhi, V. 5489
- Ramaniah, G. V.  
Evaporative cooling for IC engines 3048
- Ramani, S.  
See Bidnurkar, M. G. 6746
- Ramaprian, B. R.  
See Nicoll, W. B. 7291
- Ramesh, C. K.  
See Baikov, V. N. 8772
- Ramey, H. J., Jr.  
See Wattenbarger, R. A. 9161
- Ramirez, H. D.  
Membrane stresses in hyperbolic paraboloid shells having a parallelogram shape in plan: Part I  
See also Scordelis, A. C. 3390  
9379
- Ramkrishnan, C. V.  
See Shah, A. H. 7850
- Ramm, A. G.  
Perturbation of natural small vibration frequencies upon introduction of damping 6076
- Ramm, W.  
Traglastberechnung von im Hinblick auf Querschnitt und Belastung einfach symmetrischen Staben bei beliebigem Werkstoffgesetz (The calculation of the ultimate strength of the beam-columns made of a material of any stress-strain relation) 4469
- Ramnath, R. V.  
A generalized multiple scales approach to a class of linear differential equations 5892
- Ramsey, H.  
On the stability of elastic-plastic and rigid-plastic plates of arbitrary thickness, and flat bars of arbitrary width 2606  
See also Hauptmann, E. G. 2219  
Santosham, T. V. 5258
- Rand, R.  
Vibrations of fluid-filled spherical and spheroidal shells 503
- Rand, R. H.  
On the stability of a differential equation with application to the vibrations of a particle in the plane 977  
On the stability of the vibrations of two coupled particles in the plane 1857  
On the stability of Hill's equation with four independent parameters 5893
- Randall, D. G.  
Sonic bang intensities in a stratified, still atmosphere 646
- Randall, J. D.  
See Kenyon, R. A. 6468
- Raney, D. J.  
Wind tunnel investigation of jet interference for underwing installation of high bypass ratio engines 8130
- Raney, J. P.  
Identification of complex structures using near-resonance testing 7826
- Ranganatham, B. V.  
See Satyanarayana, B. 4336
- Ranga Raju, K. G.  
Transformation of Colebrook-White equation to yield direct solution to pipe friction problems 8825  
Resistance to the over two-dimensional strip roughness 8827
- Ranga Rao, M. P.  
See Nariboli, G. A. 3932
- Ranger, A. A.  
Aerodynamic shattering of liquid drops 9958
- Ranger, K. B.  
Exact solution for rotating bodies in a viscous conducting fluid 1425
- Ranke, A.  
On the stability analysis of multiply anchored sheet walls 255
- Rannacher, J.  
Investigation of straight plane cascades in the critical range of Reynolds numbers 1277
- Rannu, L. Kh.  
See Voldek, A. I. 9085
- Ransleben, G. E., Jr.  
Experimental determination of steady and unsteady loads on a surface piercing, ventilated hydrofoil 741
- Ranta, M. A.  
On the application of perturbation technique to the study of missile flight, with special reference to internal mass flow, thrust malalignments, and the effect of gravity 4641  
On the optimum shape of a rotating disk of any isotropic material 5188
- Rao, A. K.  
See Dattaguru, B. 3356
- Rao, A. S.  
New equations of state for gases at moderate densities 9769
- Rao, B. S.  
See Paul, H. S. 1032  
Paul, H. S. 3494
- Rao, G. N. V.  
Hydrodynamic stability of a laminar boundary layer with transverse curvature effect 1224
- Rao, H. S.  
An initial value method for an axisymmetric contact problem 7708
- Rao, J. S.  
Nonlinear vibrations of rotating cantilever beams 9439
- Rao, K. K.  
See Madhav, M. R. 3504
- Rao, K. P.  
Reinforced circular holes in cylindrical shells 7773
- Rao, K. R.  
A cylindrical coaxial MHD generator 9083

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Rao, M. N.  
See Kaura, N. N. 6314
- Rao, M. V. C.  
On the maxima of transient response and frequency response of third-order sampled-data control systems 6794
- Rao, N. V. R. L. N.  
Creep in compacted soils 2737
- Rao, P. B.  
See Rao, S. K. L. 8022
- Rao, P. V.  
Boundary layer development at curved conduit entrances 6307
- Rao, P. V. S.  
See Bidnurkar, M. G. 6746
- Rao, S. K. L.  
Slow steady rotation of a sphere in a micro-polar fluid 8022
- Rao, S. N.  
See Sreedhar, N. 1658
- Rao, S. S.  
In-plane flexural vibrations of circular rings 1827  
Slipping stream instability in anisotropic plasma with magnetic shear 6569
- Rao, T. C.  
See Lynch, A. J. 4038
- Rao, V. R.  
Radiant heat transfer in a tube heater furnace with radiating walls 4738
- Rapatskaya, I. V.  
A pressure indicator with semiconductor strain gages 7081
- Rarity, B. S. H.  
A theory of the propagation of internal gravity waves of finite amplitude 4646
- Raschke, E.  
The radiation balance of the planet Earth from radiation measurements of the satellite Nimbus II 8372
- Rashchepkin, A. P.  
Symmetrization of the winding of an induction machine with an open magnetic circuit 3969
- Rasizade, Ya. M.  
Heat transfer in viscoplastic media for prescribed flows between two parallel plates and in a circular cylindrical tube 9004
- Rasmussen, H.  
Steady viscous flow between two porous disks 9640
- Rasmussen, N. S.  
See Cassanto, J. M. 5515
- Rasskazov, L. N.  
See Nichiporovich, A. A. 6127
- Rastogi, R. P.  
Combustion of composite solid rocket propellants 2298
- Rastorguev, Yu. L.  
A rig for investigating the thermal conductivity of liquid high-temperature heat carriers 7452
- Ratcliffe, J. S.  
Solid-liquid mass transfer in a baffled stirred tank: Some new experimental results 3024  
A comparison of agitator performance for solid-liquid mass transfer in a stirred tank 3900
- Rath, P. C.  
On the classical stability conditions for a spinning shell 4863
- Ratner, A. V.  
Deformability of steels at variable temperatures 9950
- Ratnikova, L. I.  
See Berzon, I. S. 4921
- Rau, I. S.  
On fatigue-crack propagation under stationary random loading 8715
- Rausch, P. J.  
Shock propagation in a strain-hardening material 1037  
The effect of heating time on thermally induced stress waves 1507
- Rauthan, D. B.  
Fluctuating flow of an elastico-viscous fluid near a stagnation point 388  
Flow of a viscoelastic liquid due to a disk oscillating rotationally about a steady non-zero mean 427
- Rautu, S.  
Use of electronic computers for the static calculation of bar frames 2802  
Use of computers for the calculation of the statically indeterminate structures in the elastoplastic range 7101  
Some calculation problems of indeterminate structures in the plastic range 9573
- Ravera, R. J.  
Transient analysis of stress waves around cracks under antiplane strain 8660
- Ravindran, R.  
The oscillations of a spheroid along its axis in micropolar fluid 4529
- Ravisankar, G.  
See Sarma, P. K. 7443
- Rawal, S. N. C.  
See Pais-Cuddou, I. C. Dos M. 8843
- Rawdon de Paiva, H. A.  
See Sheikh, M. A. 5404
- Rawlings, B.  
See Hooke, R. 921  
Burgmann, J. B. 8777  
Hooke, R. 9402
- Rawtani, S.  
Bending of pretwisted cantilever plates 8561  
Vibration analysis of pretwisted cantilever plates 9443
- Ray, B. K.  
See Mohanty, R. 4998  
Mohanty, R. 8429
- Ray, J. D.  
Nonlinear vibrations of a beam with pinned ends 6943  
See also Bert, C. W. 8614
- Ray, K. K.  
Stresses in a nonhomogeneous circular ring having diametrically opposite concentrated forces on the inner boundary 8551
- Raybold, R. C.  
See Anderson, G. B. 3572
- Raychaudhuri, A. K.  
See Som, M. M. 4204
- Raymond, G. P.  
Consolidation of deep deposits of homogeneous clay 9497
- Raynor, S.  
See Barton, C. 758
- Rayuk, V. F.  
Determining intensity of soil pressure on a beam or wall from deflection measurements 8674
- Razogin, Yu. I.  
See Ivanova, V. S. 4411
- Razorenov, V. F.  
Penetration control in the determination of the friction and cohesion indices of cohesive soils 9495
- Razumovskaya, I. V.  
See Bartenev, G. M. 2751  
Bartenev, G. M. 6660
- Rea, D. P.  
Design of mechanical linkages using an analog computer 3641
- Reader, A. V.  
The need for conversation for the mechanical learning of concepts 7690
- Reader, W. T.  
See Magrab, E. B. 644
- Reagan, R. S.  
See Oran, C. 1795
- Reasenbergs, P.  
Nonlinearity test of an accelerometer system designed for the seismic near-field measurement 3197
- Reay, D.  
The thermal efficiency, silencing, and practicability of gas-fired industrial pulsating combustors 7464
- Reba, I.  
Massive recirculation as a method of minimizing corrosion in the combustion of residual fuels 1405
- Rebinder, P. A.  
See Pashkovskii, V. G. 5326
- Recker, W. W.  
On the dynamic response of an infinite rod to a randomly moving torque 7841
- Reckling, K. -A.  
Plastizitätstheorie und ihre Anwendung auf Festigkeitsprobleme (Theory of plasticity and its application to problems of mechanics of materials) 876  
Experiments for the determination of material anisotropy and for checking the strain hardening hypothesis of Hill 1739
- Reddi, M. M.  
See Zudans, Z. 168
- Reddy, A. S.  
Influence of ground water on the dynamic characteristics of footings on sand 8670

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Reddy, D. M.  
See Polakowski, N. H. 4378
- Reddy, D. P.  
Simple waves and shock waves in a thin prestressed elastic rod 2719
- Reddy, G. V. K.  
Reduction of the equations of the membrane theory of shells 5167
- Reddy, K. S.  
See Patwardhan, A. S. 4360
- Reddy, K. V. S.  
Stereophotogrammetry in particle-flow investigation 6451
- Reddy, N. M.  
Shock-tube flow analysis with a dimensionless velocity number 1301
- Reddy, Y. R.  
Optimum suction nozzle angle for maximum efficiency of water jet pump 8959
- Redwood, R. G.  
See Mehrotra, B. L. 5377
- Reed, I. S.  
See Walli, C. R. 53
- Reed, R. E., Jr.  
Stress concentration due to a hyperboloid cavity in a thin plate 9337
- Reeh, N.  
See Englund, F. 3264
- Reemsnyder, D. C.  
See Cunnam, W. S. 2057  
Cunnam, W. S. 5616
- Reemsnyder, H. S.  
Procurement and analysis of structural fatigue data 1925  
Some significant parameters in the fatigue properties of weld joints 4406  
Service histories and laboratory testing 8740
- Rees, D. B.  
Electron density in mixed gas plasmas generated by fission fragments 9078
- Rees, N. W.  
The adaptive control of an absorption tower 9307
- Reese, L. C.  
Generalized analysis of pile foundations 8679
- Reeves, J.  
Azimuthal dependence of sound backscattered from the sea surface 9933
- Reeves, T. E.  
See Breiter, M. C. 2482  
Keller, C. L. 9224
- Refojo, M. F.  
Artificial membranes for corneal surgery 3259
- Regan, P. E.  
Shear in reinforced concrete beams 7125  
See also Baker, A. L. L. 4474
- Regele, Z.  
Problems in the dimensioning of screen-wall foundations 257
- Regenberg, S.  
Thrust staging as a favorable thrust program for the injection into low circular orbits 626
- Regier, S. A.  
Certain singularities of the hydrodynamic equations of non-Newtonian media 6298
- Regulskis, K. M.  
See Kumpikas, A. L. 3345
- Rehak, V.  
Some problems in the use of hot wire X-probes for turbulent flow investigation 1289
- Rehmann, W. K.  
See Stone, N. H. 9889
- Rehme, K.  
Pressure loss in rod bundles with coiled wire distance pieces 5481
- Reich, S.  
See Pearson, J. D. 8479
- Reichardt, I.  
See Baum, F. 700
- Reichardt, W.  
Room-acoustical model investigations with the pulse test method for the rebuilt Congress and Concert Hall in the "Haus des Lehrers" at Berlin, Alexanderplatz 3145  
Properties required of an instrument to measure the level of impulsive sound 3146
- Reichenbach, R. E.  
See Horn, K. P. 444  
Strum, E. J. 5716
- Reid, W. H.  
See Hughes, T. H. 7230
- Reid, W. P.  
Vibrating triangular plate 5227
- Reid, W. T.  
See Krause, H. H. 3032
- Reider, G.  
Another problem leading to Windisch's integral equation for torsion 8521
- Reif, Z.  
See Carnegie, W. 7803
- Reif, Z. F.  
The effect of static deflection on the harmonic resonance of a system with a hardening nonlinear spring 9427
- Reimpell, J.  
On the stresses of front-end suspension units 2023
- Rein, M. V.  
See Laricheva, V. V. 72
- Reinecke, W. G.  
Hypervelocity impact of small right circular cylinders 3500
- Reinhardt, W. A.  
A simplified molecular model for studying vibration-dissociation coupling in fluid flows 1219
- Reinhold, D.  
Problems at the reversing of mass affected hydraulic thrust piston drive 9291
- Reinsch, C.  
See Parlett, B. N. 7642
- Reipert, Z.  
Fourier series with terms satisfying certain definite conditions: Parts 1 and 2 1605
- Reis, R. J.  
Prediction of rocket exhaust flow-fields 8886
- Reismann, H.  
See Dym, C. L. 679
- Reiss, E.  
See Spadaccini, L. J. 4766
- Reiss, E. L.  
One-dimensional impact waves in inhomogeneous elastic media 5269  
The impact problem for the Klein-Gordon equation 7860  
See also Park, Im. K. 7856
- Reiss, R.  
Minimal design of sandwich axisymmetric cylindrical shells obeying Mises' criterion 1116
- Reissner, E.  
On generalized two-dimensional plate theory: Part 2 153  
On finite symmetrical deflection of thin shells of revolution 945  
On Saint-Venant flexure including couple stresses 2569
- Reiter, G. F.  
Instability of the steady state of a plasma in a uniform electric field 2308
- Reiter, R.  
The design and operation of a respiratory tract model 10019
- Reitman, M. I.  
See Karpenko, N. I. 7968
- Rektorys, K.  
Survey of applicable mathematics 5891
- Remedios, N. C.  
Stress diffusion from an end loaded reinforcing bar to a plane matrix 166
- Remillard, W. J.  
Computer model for pressure waves radiating from time-varying axisymmetric sources in the atmosphere 33
- Remizova, N. I.  
See Kilchevskii, N. A. 162
- Rempel, G. G.  
Note on the relation between chemical losses and charge dimensions 9921
- Renard, K. G.  
Flood peaks from small southwest range watershed 9170
- Renda, R. B.  
See Chuang, H. 6399
- Renieri, A.  
See Carelli, M. 9754
- Renner, U.  
Dynamic coupling of a three-frame platform 8297
- Rennie, A. J.  
See Delany, M. E. 6650
- Reno, R.  
Capillary bearings 1579

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Repin, I. V.**  
BESM-2M computer calculation of beam type structures on elastic foundations: Method, algorithm, program 8549
- Repnikov, L. N.**  
Analysis of beams on elastic foundations with composite properties of a Winkler foundation and a linearly deforming medium 147
- Repukhov, V. M.**  
Film cooling effectiveness of a flat surface downstream of heated section and a porous strip 3885  
*See also Shvets, I. T.* 9031
- Resch, F.**  
Hot-wire and hot-film studies in water 2179
- Resende, E.**  
*See Ahluwalia, D. S.* 3479
- Reshchikov, V. F.**  
*See Drozdov, Yu. N.* 10009
- Reshetov, D. N.**  
The limiting contact load on machine components 2033  
Use of friction and wear criteria in developing component designs 2432
- Reshotko, E.**  
Stability theory as a guide to the evaluation of transition data 3745
- Reusswig, G. J.**  
A reassessment of the wall effect of non-Newtonian flow of polymer solutions 8821
- Reuter, R. C., Jr.**  
Dispersion of flexural waves in circular bimaterial cylinders: Theoretical treatment 1021  
Shear-coupled waves in a thin, helically wrapped cylindrical shell 5259
- Revah, M.**  
Operational calculus applied to the warming, partial cooling and re-warming of a dwelling with windows and partitions 3016
- Revell, J. D.**  
Second-order theory for steady or unsteady subsonic flow past slender lifting bodies of finite thickness 1247
- Reverman, A.**  
Errors obtained in spectral-density analysis with sweeping filter and remaining ripple when using equalizer-analyzer system for random-vibration test 9469
- Reylek, R. S.**  
*See Kaelble, D. H.* 7169
- Reynen, J.**  
Temperature and thermal stress distribution in smooth and finned cannings due to axial flux variations 678
- Reynolds, A. J.**  
Flow deflection by gauze screens 9157
- Reynolds, H. C.**  
Thermal entry for low Reynolds number turbulent flow 560
- Reynolds, O.**  
Papers on mechanical and physical subjects 409
- Reynolds, T. W.**  
Distribution of neutral propellant from electric thrusters onto spacecraft components 9912
- Reynolds, W. C.**  
*See Uzman, T.* 2897  
*See Hussain, A. K. M. F.* 8916
- Rezanov, A. I.**  
*See Bukhin, V. E.* 9559
- Rezek, V.**  
*See Pokorný, M.* 3761
- Rezende, S. M.**  
Magneto-elastic waves in time-varying magnetic fields: Part 1, Theory; Part 2, Experiments 5281
- Reznik, K. A.**  
Plotting confidence intervals for parameters of non-normal populations 9243
- Reznik, L. B.**  
*See Boikov, N. A.* 9834
- Reznikov, A. N.**  
Distribution of heat flux intensity and temperature on contact surfaces of moving bodies, as applied to cutting of metals 1320
- Reznikov, B. A.**  
On determining the parameters of space-vehicle motion during flight with an operating engine 1463  
Parametric observability of space vehicles 9906
- Rhines, W. J.**  
Elastic-plastic foundation model for punch-shear failure 248  
The effect of out-of-plane restraint on plane-stress solutions near straight boundaries 8505
- Rhode, C. M.**  
*See Pfeiffer, E. A.* 6747
- Rhodes, C. A.**  
On the stability of slip flows in parallel heated passages 8084
- Rhodes, E.**  
Co-current gas-liquid flow 2859
- Rhodes, M. D.**  
Calorimetric evaluation of two cone-column solar-energy concentrators 4705
- Ribaut, M.**  
Three-dimensional calculation of flow in turbomachines with the aid of singularities 1280
- Ribe, F. L.**  
High-beta plasmas in theta pinches and cusp experiments 3971
- Ribner, H. S.**  
Acoustic energy flux from shock-turbulence interaction 1490  
Aerodynamic noise 5792  
Quadrupole correlations governing the pattern of jet noise 8310
- Rice, G. W.**  
*See Mathieu, P. G.* 3186
- Rice, J. R.**  
On the ductile enlargement of voids in triaxial stress fields 6186
- Richalet, J.**  
*See Lefevre, C.* 2507
- Richards, B. G.**  
The role of environment in flexible pavement design 2745  
A mathematical model for moisture flow in Horsham clay 5299
- Richards, B. P.**  
Strain induced in yttrium iron garnet by various milling treatments 7893
- Richards, D. B.**  
Thermocouples in magnetic fields 2206
- Richards, F. A.**  
Time-resolved temperature measurement of a laser-heated surface 1309
- Richards, H. T.**  
*See Rohde, J. E.* 1216
- Richards, J. C.**  
*See Brown, R. L.* 9953
- Richards, P. H.**  
*See Kapp, L. B.* 2312
- Richards, W. H.**  
*See Faison, R. W.* 936
- Richardson, H. A., Jr.**  
*See Yew, C. H.* 1036
- Richardson, J. F.**  
*See Godard, K.* 4045
- Richardson, P. D.**  
Local effects of horizontal and vertical sound fields on natural convection from a horizontal cylinder 5655  
*See also Peterka, J. A.* 3122  
*See Peterka, J. A.* 8999
- Richardson, S.**  
Two-dimensional bubbles in slow viscous flows 6677  
A "stick-slip" problem related to the motion of a free jet at low Reynolds numbers 8048
- Richart, F. E., Jr.**  
*See Drnevich, V. P.* 9494
- Richley, E. A.**  
*See Reynolds, T. W.* 9912
- Richman, P. L.**  
Compressible fluid flow and the approximation of iterated integrals of a singular function 6340
- Richmond, B.**  
Trapezoidal boxes with continuous diaphragms 1719  
Matrix difference analysis of box girders 7106
- Richmond, O.**  
Plane strain necking of V-notched and un-notched tensile bars 1746
- Rideout, V. C.**  
Computer study of the effects of small nonlinearities in the arterial system 4125
- Rieder, G.**  
Mechanical interpretation and classification of some integral methods in the two-dimensional theory of elasticity: Parts 1 and 2 84
- Rigamonti, G.**  
Study of a hydrostatic transmission tractor 7994

- Rigaut, F.**  
Analog study of airfoil wing profiles in transonic regime 2920
- Rigby, G. R.**  
*See* Ratcliffe, J. S. 3024  
Ratcliffe, J. S. 3900
- Rigby, M.**  
Augmented van der Waals theory for mixtures 8976
- Rikoski, R. A.**  
Particle diffusion in a low pressure crossfield plasma heating device 7489
- Riley, N.**  
Thermally induced boundary-layer flows in a rotating environment 457  
Trailing edge flows 3724
- Riley, W. A.**  
Acoustically induced optical anisotropy in liquids 1493
- Riley, W. F.**  
Recording dynamic fringe patterns with a Cranz-Schardin camera 1959
- Rimon, Y.**  
Numerical solution of a uniform flow over a sphere at intermediate Reynolds numbers 3689  
Laminar flows past oblate spheroids of various thicknesses 6325
- Rimskiy-Korsakov, A. V.**  
Physics of aerodynamic noise 4014
- Ringelberg, J. M.**  
The evaluation of wind and current forces on moored vessels 2428
- Ringrose, J.**  
Half-speed bearing whirl excited by a single propagating stall cell in a multi-stage axial-flow compressor 2952
- Ripianu, A.**  
Miscarile vibratorii ale arborilor drepti si cotiti (Vibration of shafts and crankshafts) 6947
- Ripling, E. J.**  
*See* Crosley, P. B. 4449
- Ripperger, E. A.**  
*See* Watson, H., Jr. 3163  
Kopeccky, J. A. 4114
- Ristic, V. M.**  
Surface wave propagation and amplification by beam/plasma interaction 9878
- Ritchie, D. W.**  
An evaluation of photovoltaic devices for future spacecraft power demands 4703
- Rittich, H. O.**  
Check of angular rotations of frame-works 346
- Rittmann, K.**  
Calculation of the laminar, stationary incompressible boundary layer of a rotating axially symmetric body in forced flow 8899
- Rivkin, S. L.**  
Experimental study of the isobaric specific heat of carbon dioxide at supercritical pressures 2961  
*See also* Vukalovich, M. P. 4707
- Rivlin, R. S.**  
Generalized mechanics of continuous media 97  
*See also* Hayes, M. A. 3490  
Sawyers, K. N. 7562  
Lockett, F. J. 8019
- Rivlin, T. J.**  
An introduction to the approximation of functions 1627
- Rizzo, F. J.**  
*See* Cruse, T. A. 7701
- Roache, P. J.**  
Numerical solutions of laminar separated flows 9685
- Roban, I.**  
High-speed cams 4504
- Robbins, D. H.**  
Determination of mechanical properties of the bones of the skull 751
- Robe, T. R.**  
Dynamics of an elastic satellite: Parts I, II, and III 5778  
*See also* Funk, J. E. 8942
- Roberson, R. E.**  
A linearization tool for use with matrix formalisms of rotational dynamics 6817
- Robert, A.**  
*See* de Leiris, H. 9533
- Robert, C.**  
*See* Oiknine, C. 6690
- Roberts, A. F.**  
*See* Burgoyne, J. H. 6519  
Burgoyne, J. H. 6520
- Roberts, A. K.**  
Combustion instability and the design of solid propellant rocket motors 7467
- Roberts, D. R.**  
Further measurements of transient pressures on narrow-delta wing due to a vertical gust 3766
- Roberts, E. H.**  
Load-carrying capacity of slab strips restrained against longitudinal expansion 3595
- Roberts, J. B.**  
Estimation of the probability of first-passage failure for a linear oscillator 4319
- Roberts, J. L.**  
*See* Hales, A. L. 9165
- Roberts, M. C.**  
*See* Munro, H. P. 36
- Roberts, N. P.**  
Effect of bond on crack width and deflection 8770
- Roberts, P. H.**  
Electrohydrodynamic convection 1431  
*See also* Glaberson, W. I. 9056
- Roberts, T. A.**  
*See* Hovell, P. B. 3838
- Roberts, V. C.**  
An analog computer for thermal dilution flow measurements 4126
- Robertson, J. M.**  
Cavitation state-of-knowledge 2178  
Rotational-flow analysis of plane right-angle bends 7191
- Robertson, S. L.**  
PVT properties of methane and propane to 10 kbar and 200°C 5632
- Robin, G. C.**  
Dynamic stress analysis of below-knee drop foot braces: Studies on patients with paralysis of the lower limb 1583
- Robin, T. T.**  
*See* Snyder, N. W. 5682
- Robinson, A. C.**  
A survey of optimal control of distributed-parameter systems 5048
- Robinson, A. R.**  
*See* Abdel-Samad, S. R. 344  
Carter, R. L. 5229  
Baker, D. J. 8360
- Robinson, C. N.**  
*See* Graham, P. H. 5344  
Henderson, C. B. 8705
- Robinson, D. C.**  
Two-dimensional magnetohydrodynamic turbulence 5736
- Robinson, D. W.**  
An outline guide to criteria for the limitation of urban noise 9131  
*See also* Johnson, D. R. 4865
- Robinson, E.**  
*See* Leichter, H. L. 7065
- Robinson, J. L.**  
*See* Pannell, F. N. 8773
- Robinson, J. R.**  
Forecasting of the buckling loads of reinforced concrete columns by the method of Faessel 9407
- Robinson, M.**  
The effect of finite changes of geometry on the rigid-plastic limit pressure of flush nozzles in spherical pressure vessels 356
- Robinson, N. I.**  
Bending of parabolic and cardioid plates 3401  
Buckling of parabolic and semi-elliptic plates 6063  
Collocation solution for a corner supported plate 7760
- Robinson, P. R.**  
*See* Pritchard, C. 2435
- Robinson, R.**  
*See* Kovach, R. L. 4917
- Robson, J. D.**  
Response of a vibratory system to imposed-displacement excitation 3437
- Robson, K.**  
The stability of laminar diffusion flames of methane 9835
- Rocha, M.**  
A new method for the complete determination of the state of stress in rock masses 4368
- Roche, F. -M.**  
*See* Clarion, C. 2050

- Rochino, A.**  
Analytical investigations of incompressible turbulent swirling flow in stationary ducts 6402
- Rockenhauser, W.**  
Structural design criteria for primary containment structures: Prestressed concrete reactor vessels 5412
- Rockey, K.**  
Influence of the flexural rigidity of flanges upon the load-carrying capacity and failure mechanism of webs in shear 1802  
Influence of the flexural rigidity of (a) one, (b) two longitudinal stiffeners upon the load-carrying capacity and the failure mechanism of webs in pure bending 4486  
Buckling of plate girder webs under partial edge loadings 8590
- Rodabaugh, E. C.**  
Assessment of the plastic strength of pressure vessel nozzles 359
- Rodean, H. C.**  
Relationship for condensed materials among heat of sublimation, shock-wave velocity, and partial velocity 6476
- Rodenwald, M.**  
Comparison of controllers for hovering rigs and VTOL aircraft in hovering flight 6812
- Rodgers, A.**  
*See Nyborg, W. L.* 704
- Rodgers, W.**  
*See Tsao, S.* 8946
- Rodichev, Yu. M.**  
Device for the investigation of the mechanical properties of plastics in vacuum at high and low temperature 4906
- Roedel, W.**  
On the behavior of short-lived cosmic ray produced nuclides in the lower atmosphere 6713
- Roehrs, R. J.**  
*See Center, D. E.* 4458
- Roetman, E. L.**  
*See Guenther, R. B.* 8445
- Roffman, G. L.**  
A discussion of the effects of sound on jets and flueic devices 9129
- Rogak, E. D.**  
Exterior initial-boundary value problems for quasilinear hyperbolic equations in time-dependent domains 1613
- Rogan, A. J.**  
Rubble mound breakwater behavior under wave action 8836
- Roganovich, D. L.**  
Instrument for investigating external respiration (PFVD-4) 8409
- Rogers, B. K.**  
Measurement of three-dimensional boundary layers 4613
- Rogers, C.**  
Reciprocal relations in nonsteady one-dimensional gasdynamics 4598  
Invariant transformations in non-steady gasdynamics and magneto-gasdynamics 8275
- Rogers, C. R.**  
*See Suh, N. P.* 7733
- Rogers, D. F.**  
Further similar laminar-flow solutions 3736
- Rogers, J. D.**  
Two-phase friction factor for nitrogen between one atmosphere and the critical pressure 5485
- Rogers, L. A.**  
*See Sisemore, C. J.* 9124
- Rogers, M. D.**  
The mechanism of scuffing in diesel engines 10007
- Rogers, P.**  
Hyperbolic cooling towers: Development and practice 5415
- Rogers, T. G.**  
*See Mulhern, J. F.* 3378
- Rogge, T.**  
A coupled thermoelastic problem 3150
- Rogge, T. R.**  
A method of solving wave propagation problems in bounded anisotropic media 7857  
*See also Predebon, W. J.* 2049
- Rogger, J. S.**  
The solution of adhesive bonding production problems 7170
- Rogova, S. E.**  
*See Dzhikiya, K. S.* 9293
- Rogovaya, I. A.**  
Measurement of the thickness and profile of liquid films 6324
- Rohde, J. E.**  
Discharge coefficients for thick plate orifices with approach flow perpendicular and inclined to the orifice axis 1216
- Rohmaller, P. L.**  
*See Hall, W. J.* 3653
- Rohrer, W. M., Jr.**  
*See Coffield, R. D., Jr.* 9828
- Rohrle, M.**  
Tendency of light-metal piston alloys to crack under periodic thermal stressing: Part I 4902
- Rohsenow, W. M.**  
*See Forslund, R. P.* 3877  
*Shai, I.* 8218
- Roife, I. M.**  
High-frequency stabilization of toroidal current discharge in a magnetic field 5744  
*See also Gordienko, V. P.* 3085
- Roitenberg, E. Ya.**  
On the theory of interconnected nonlinear control systems 4200  
On the problem of observability 5008  
On the theory of interconnected controlled systems 5050  
*See also Boltyanskii, V. G.* 1654
- Rolfe, G. H.**  
Research on the hydraulic coupling 9611
- Rolfe, S. T.**  
*See Shoemaker, A. K.* 4900
- Roller, M. L.**  
Precursor cerebral circulation models 4118
- Rolls, L. S.**  
Flight evaluation of tip-turbine-driven fans for lateral control in a hovering VTOL aircraft 9101
- Rom, J.**  
The semi-empirical parameters used in the dividing streamline and the momentum integral analyses for separated flows 6392
- Romalis, B. L.**  
*See Reshetov, D. N.* 2033
- Romanenko, P. N.**  
Evaluation of kinetic energy losses in fluid flow in tubes 2069  
Influence of coolant supply on heat transfer and friction in a turbulent boundary layer 3731
- Romanenko, Yu. B.**  
*See Dorfman, L. A.* 6339
- Romanenkov, I. G.**  
*See Panferov, K. V.* 3573
- Romanica, R.**  
Theoretical calculation and experimental measurement of the coordinate of displacement within loose medium with rotation symmetry 4342
- Romaniv, O. N.**  
The role of thermomechanical factors in physicochemical processes leading to strengthening of metals and alloys 1067  
Estimation of the corrosion resistance of metals by a volumetric method 4455  
*See also Karpenko, G. V.* 6225
- Romanov, V. G.**  
A way of posing the inverse problem for the generalized wave equation 3779
- Romanov, V. P.**  
*See Gitis, M. B.* 4888
- Romanova, N. N.**  
*See Golitsyn, G. S.* 5854
- Romanovskii, S. G.**  
Drying kinetics of capillary-porous materials for a conductive-convective heat supply in an electromagnetic field 1369
- Romashchev, A. A.**  
*See Rozenblat, M. A.* 823
- Romberg, G.**  
Weak-wave propagation in relaxing gaseous mixtures 5519
- Romine, W. D.**  
*See Rosenblatt, M.* 9491
- Rooke, D. P.**  
The crack energy and the stress intensity factor for a cruciform crack deformed by internal pressure 4394
- Roorda, J.**  
Some statistical aspects of the buckling of imperfection-sensitive structures 954  
*See also Dimantha, P. C.* 2496

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Root, L. W.**  
Simplified random vibration computations 6098
- Roper, C. G.**  
Molten metal to forging on one machine 7050
- Roschke, E. J.**  
*See* Massier, P. F. 6379
- Roscoe, K. H.**  
On the generalized stress-strain behavior of 'wet' clay 250
- Roscoe, R.**  
Bounds for the real and imaginary parts of the dynamic moduli of composite viscoelastic systems 4244
- Rose, D.**  
*See* Flemming, M. 7499
- Rose, D. J.**  
*See* Rees, D. B. 9078
- Rose, D. W.**  
*See* Doig, I. D. 8964
- Rose, J. W.**  
*See* Citakoglu, E. 9017
- Rose, R.**  
Flight and tunnel measurements of pressure fluctuations on the upper surface of the wing of a venom aircraft with a sharpened leading-edge 6410  
*See also* Carl, W. P. 1565
- Rose, W. C.**  
*See* Watson, E. C. 1211
- Rosen, A.**  
Repeated discontinuous yielding of 2024 aluminum alloy 884
- Rosen, B. W.**  
Effective thermal expansion coefficients and specific heats of composite materials 7397  
Thermoelastic energy functions and minimum energy principles for composite materials 8333  
*See also* Dow, N. F. 6662
- Rosen, J. S.**  
Numerical solution of differential equations using Obrechhoff corrector formulas 6779
- Rosen, R.**  
Substructure analysis by matrix decomposition 8756
- Rosenbaum, R. L.**  
A survey of some secondary thermometers for possible applications at very low temperature 8985
- Rosenbaum, W.**  
Velocity and current density distributions in an annular MHD-flow with Hall effect 9055
- Rosenberg, S.**  
*See* Ippolito, S. J. 6984
- Rosenblat, S.**  
*See* Jones, A. F. 420  
*See* Debnath, L. 1260  
*See* Williams, J. E. F. 5561
- Rosenblatt, M.**  
Numerical studies of ejecta characteristics behind thin plates 9491
- Rosenbluth, M. N.**  
Approximate equations for plasmas in mirror machines 2319  
*See also* Coppi, B. 2309
- Rosenbrock, H. H.**  
Computation of minimal representations of a rational transfer-function matrix 37
- Rosencrans, S.**  
A nonlinear eigenvalue problem in hydrodynamics 1323
- Rosenfield, A. R.**  
A dislocation array in a displacement dependent stress field 6018  
*See also* Hahn, G. T. 4493
- Rosensweig, R. E.**  
Magnetic-fluid seals 374
- Rosental, Yu. G.**  
The experimental determination of local bending stresses in channel-section beams 7746
- Roshko, A.**  
A review of concepts in separated flow 2864
- Rosin, G. S.**  
Absolute viscosity measurement by the undamped lengthwise vibrations of a plate in a fluid 1295  
Form factor of the sample in measurements of the dynamic shear modulus 6021  
*See also* Mokshantsev, V. V. 3581
- Rosinger, H. E.**  
Contribution of Snoek rearrangement to strain aging 8539
- Rosman, R.**  
Pierced walls subject to gravity loads 5420  
On the calculation of the loading capacity of systems of shear walls 7111
- Ross, A. J.**  
*See* Turner, K. J. 5584
- Ross, B.**  
*See* Hanagud, S. 6117
- Ross, E. W., Jr.**  
On inextensional vibrations of thin shells 1843  
Large deflections of an inflated cylindrical tent 6913
- Ross, R. J.**  
*See* Kao, J.-S. 5228
- Rosby, H. T.**  
A study of Benard convection with and without rotation 1331
- Rosser, W. A., Jr.**  
*See* Wood, B. J. 6518
- Rossettie, P. G.**  
*See* Spencer, R. C. 5631
- Rossettos, J. N.**  
The dynamic response of cylindrical and conical panels 6956  
*See also* Parisse, R. F. 7776
- Rossger, E.**  
On the simultaneous optical celestial navigation in interplanetary space 5767
- Rossi, L. C.**  
Attitude dynamics and stability conditions of a nonrigid spinning satellite 4853
- Rossow, E. C.**  
*See* Lin, K. H. 5191  
*See* Lee, S.-L. 5196
- Rossow, V. J.**  
Magnetic-compression waves in collisionless plasmas: Oblique ambient magnetic field 3089
- Roszkowski, M.**  
*See* Parszewski, Z. 5874
- Rotach, V. Ya.**  
On the synthesis of automatic process control 3327
- Rotem, Z.**  
Exact solution for diffusion in flow down an incline 6295  
Transition to quasi-cellular flow in natural convection above horizontal plates and disks 8203
- Rotenberg, A.**  
Nearly free flow through an orifice 7276
- Roth, B.**  
*See* Chen, P. 367  
*See* Chen, P. 368
- Roth, G. J.**  
Parametric fatigue analysis of USAF fighter aircraft 6202
- Roth, W.**  
A theory for the calculation of flutter in subsonic flow 1453
- Rothe, R. E.**  
The solid angle at a point subtended by a circle 4997
- Rothfarb, B.**  
On the three-commodity flow problem 3292
- Rothhardt, L.**  
Notes on the problem of magnetogasdynamic generators 1442  
*See also* Rosenbaum, W. 9055
- Rothmayer, W.**  
Determination of stability derivatives from free-flight measurements aboard missiles 3772
- Rothwell, A.**  
The shear stiffness of flat-sided corrugated webs 149
- Rotina, V. Yu.**  
Statistical synthesis of a ball gyro servo 5956
- Rott, L. A.**  
*See* Vikhrenko, V. S. 2594
- Rotta, J. C.**  
Comparative computations of turbulent boundary layers with different dissipation laws 5548
- Roubine, E.**  
Mathematics applied to physics (with contributions of Deschamps, G. A., et al.) 9220
- Rouche, N.**  
New stability theorems utilizing the direct method of Lyapunov 8603  
*See also* Peiffer, K. 2503

- Rouhiainen, P. O.**  
On the deposition of small particles from turbulent streams 6667
- Rouland, M.**  
See Celmer, J. 5003
- Rouse, H.**  
See Lamandi, C. 8849
- Rowe, P. W.**  
The relation between the shear strength of sands in triaxial compression, plane strain and direct shear 3503  
Failure of foundations and slopes on layered deposits in relation to site investigation practice 3509  
The influence of geological features of clay deposits on the design and performance of sand drains 8684
- Rowlands, R. E.**  
A multiple-pulse Ruby-laser system for dynamic photomechanics: Applications to transmitted- and scattered-light photoelasticity 1942
- Roy, A.**  
On the propagation of SH waves in a heterogeneous sphere 5249
- Roy, A. B.**  
See Chakraborty, S. K. 9484
- Roy, J. S.**  
See Mishra, S. P. 7223
- Roy, L. K.**  
The first passage time distribution of Brownian motion with positive drift 5907
- Roy, P.**  
Radial deformation of a polarized piezoelectric aggregate 863  
Disturbances in a perfectly conducting viscoelastic plate in a magnetic field 1731  
A note on the deformation of an electrostrictive prismatical bar 6838
- Roy, R. J.**  
See Jenkins, K. W. 2520
- Roy, S.**  
A note on natural convection at high Prandtl numbers 543
- Roy, T. K.**  
Calibration of a push-pull type fatigue testing machine by the application of strain-gage method 7093
- Roy Choudhury, D.**  
Response of linear systems 8428
- Roylance, D. K.**  
See Devries, K. L. 7945
- Royster, D. M.**  
See Pride, R. A. 3592
- Rozanov, O. K.**  
See Yakushev, V. V. 3090
- Roze, A. V.**  
See Tarnopolskii, Yu. M. 150
- Rozenblat, M. A.**  
Elements with adaptive transfer coefficients: Survey 823
- Rozenblyum, V. I.**  
Discontinuous fields of axisymmetric plastic flow in the case of the Tresca criterion of fluidity 5107  
On a complete system of equations of plastic equilibrium of thin-walled shells 5164
- Rozenshtein, I. E.**  
See Frolov, V. V. 3914
- Rozenvasser, E. N.**  
Sensitivity equations of pulse control systems 5005
- Rozhdestvenskiy, I. B.**  
Calculation of flow and thermodynamic variables of an argon-cesium mixture behind a normal shock 3844
- Rozov, Yu. L.**  
The use of the stochastic-approximation method when the possibility arises of errors of the "miss" type 1684
- Rozovskii, M. S.**  
Selection of torque distributor systems with four driven links 8000
- Rozsa, L.**  
See Detre, Gy. 3511
- Rozvany, G. I. N.**  
Optimal design of axisymmetric slabs 2785  
A new approach to extremum problems 13  
A new approach to limit analysis 9571
- Rubanovskii, V. N.**  
Stability of motion of a free solid with a cavity completely filled with a viscous liquid in the force field of two stationary attracting centers 2066  
Integrable cases in the problem of a heavy solid moving in a fluid 6312  
Some possible motions of a heavy solid in a fluid 7195
- Rubenfeld, L.**  
Non-axisymmetric, thermoelastic stress distribution in a solid containing an external crack 9943
- Rubenfeld, L. A.**  
See Handelman, G. H. 5266
- Rubenkova, L. A.**  
Stress state in the flange during the drawing of a unit with a complicated form 4381
- Rubenstein, C.**  
The mechanism of orthogonal cutting with controlled contact tools 5313  
See also Greenhow, J. N. 1910  
Connolly, R. 7892
- Rubin, E. L.**  
See Benison, G. I. 7254
- Rubin, H.**  
Some properties of general linear elastico-viscous liquids 6300  
See also Poreh, M. 6296
- Rubin, M. M.**  
See Mitor, V. V. 9829
- Rubin, S. G.**  
Hypersonic interactions near sharp leading edges 3705
- Rubina, L. I.**  
See Ermolin, E. V. 3711
- Rubins, P. M.**  
See Strehlow, R. A. 2189
- Rubinsky, M. A.**  
Rapid selection of beam-columns 321
- Rubinstein, M. F.**  
See Rosen, R. 8756
- Rubio, J. E.**  
A mathematical model of the respiratory center 3262  
A sufficient condition in the calculus of variations 6764
- Rubisz, J. J.**  
See Sawczenko, W. I. 4429
- Rubtsov, A. N.**  
Calorimeter for precision enthalpy measurements during reactions between solids and liquids 6481
- Ruckauer, Ch.**  
Investigation of the attenuation of shock waves through multiple reflection in a shock tube 7245
- Ruckenstein, E.**  
Mass transfer to falling liquid films at low Reynolds numbers 3019  
Mass transfer in the case of interfacial turbulence induced by the Marangoni effect 4759  
See also Berbente, C. P. 415
- Rudakov, L. I.**  
See Arefev, V. I. 7484
- Rudakov, V. M.**  
On continuous-observation processing in a certain problem of space navigation 9108
- Ruddlesden, F.**  
Oscillatory pressure measurements on a flexible slender-wing model at low subsonic speeds 1299
- Rudenko, O. V.**  
Formation of reflected waves at discontinuities in a sound wave 9931
- Rudgers, A. J.**  
Acoustic pulses scattered by a rigid sphere immersed in a fluid 5798
- Rudis, M.**  
The determination of the real shape of the time correlation function computed from partially averaged data 6398
- Rudnev, V. S.**  
See Konkov, A. A. 2990
- Rudnick, I.**  
See Imai, J. S. 7542
- Rudnitskii, N. Ya.**  
Calculating the settlement of foundations on loose sand 6144
- Rudnitskii, Yu. S.**  
See Lobanov, L. M. 1944
- Rudnitskiy, V. P.**  
Vertical travel-time curves of refracted waves and multiply refracted waves 3194
- Rues, D.**  
A three-front configuration with heat addition 1210  
The influence of strong discontinuities on subsonic flow over profiles 8052
- Ruesch, K.**  
Calculation of cable cars with computers 8546

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Rufenacht, J.  
Combustion gas phenomenology in  
detonating solid explosives 9918
- Ruger, C. J.  
See Ting, L. 8914
- Rugh, W. J.  
A new approach to the solution of  
linear optimal control problems 1669
- Ruiz, C.  
See Chukwujekwu, S. E. 3613
- Ruiz, W. M.  
Reinforced concrete beams under  
repeated loads 4476
- Ruiz-Urbiet, M.  
See Scott, C. J. 5663
- Rumer, R. R., Jr.  
See Apmann, R. P. 9635
- Rumiantsev, V. V.  
On the stability of steady-state  
motions 1013
- Rumyantsev, A. P.  
Investigation of the acoustic trans-  
parency of the system water-cylind-  
rical solid 4028
- Rumyantsev, V. V.  
Stability of steady-state satellite  
motion 3107  
Stability of steady motion of  
satellites 3985
- Runchal, A. K.  
Numerical integration procedure for  
the steady state Navier-Stokes  
equations 5492
- Runova, N. G.  
See Rogovaya, I. A. 6324
- Runstadler, P. W., Jr.  
Straight channel diffuser perfor-  
mance at high inlet Mach numbers 6357
- Ruoff, A. L.  
See McCormick, P. G. 9348
- Rusakov, M. M.  
Experimental simulation of meteor-  
ite impact 5283
- Rusch, H.  
See Kupfer, H. 5364
- Rushton, K. R.  
Torsional stress concentration  
factors for grooved shafts 855  
Finite difference solutions for an  
unsteady interference parameter  
in slotted wind tunnels 8969
- Ruskol, V. A.  
Similar solution of laminar bound-  
ary-layer equations with a flame  
front 1393
- Ruspini, E. H.  
See Buell, J. 5807
- Russell, A. L.  
Amphibious vehicles 7038
- Russell, D. L.  
Linear stabilization of the linear  
oscillator in Hilbert space 797  
Continuity in the strong topology  
of operator-valued solutions of  
nonlinear differential equations  
with an application to optimal  
control 3342
- Russell, J. K.  
See Brown, R. H. 6175
- Russell, T. E.  
Gas-turbine face-seal thermal deforma-  
tion and computer program for  
calculation of axisymmetric tem-  
perature field 2822
- Russo, G. P.  
A nomograph for the evaluation of  
the thrust coefficient of a nozzle 1217
- Rust, J. H.  
See Nelson, M. E. 8987
- Ru-Sue Ko, D.  
Finite disturbance effect on the  
stability of a laminar incompress-  
sible wake behind a flat plate 6333
- Rutkevich, B. N.  
See Fedorchenko, V. D. 606
- Rutkevich, I. M.  
See Regirer, S. A. 6298
- Rutkovsky, V. Yu.  
Application of S. A. Tchaplygin's  
theorem to synthesis of self-adjust-  
ment circuit parameters of systems  
utilizing information on ampli-  
tude-frequency response 822
- Ruus, E.  
Stability of oscillations in simple  
surge tank 3788
- Ruzicka, J. E.  
Resonance characteristics of uni-  
directional viscous and Coulomb-  
damped vibration isolation sys-  
tems 5244  
See also Schubert, D. W. 8633
- Ruzicka, M.  
Critical Mach number for two-  
dimensional blade cascades 4660
- Rvachev, B. L.  
On the application of the Bubnov-  
Galerkin method to the solution of  
boundary problems for domains of  
complex shape 1620
- Ryabov, A. F.  
Dynamic problems of the theory of  
multilayer shells 7822
- Ryabov, G. K.  
Inertia effects of impact loading in  
chain drives 5425
- Ryabyshev, A. M.  
Instruments for determination of  
the elastic limit of thin-sheet  
materials at high temperatures in  
liquid media 4909
- Ryan, F. W.  
See Schonhorn, H. 8818
- Ryazanov, E. V.  
Exact solutions of equations de-  
scribing the motion of a gravitat-  
ing gas with homogeneous de-  
formations and transverse velocity  
components 447
- Ryazanov, G. A.  
Simulating the rotation of bodies  
in an ideal fluid by the electro-  
hydrodynamic analogy method  
using a vortex electric field 4165
- Ryazin, A. P.  
See Konkov, A. A. 2990
- Rybak, S. A.  
See Matveev, Yu. I. 9137
- Rybakov, A. P.  
See Tsirolnikov, L. M. 9037
- Rybakova, R. I.  
See Strelbitskaya, A. I. 1769
- Rybalko, P. F.  
See Gusev, G. V. 5131
- Rybalko, V. F.  
Low-capacity mercury-vapor dif-  
fusion pump for ultrahigh vacuums 5372
- Rybalov, N. E.  
Investigation of the dynamic fatigue  
of composite polymer materials 280
- Rybalov, S. L.  
Rubber wear during friction against  
a metallic surface with reference to  
packing glands for high-speed  
machine elements 745
- Rybanin, S. S.  
Turbulence in detonation 3905
- Rybnikov, S. I.  
Dynamic characteristics of curvature,  
curvilinear surfaces, and contour  
transducers 5028
- Rychlewski, J.  
On the criteria of positiveness of  
stress power for certain materials  
in spatial motion 5102  
See also Arcisz, M. 9354
- Rylander, H. G.  
See Beightler, C. S. 9617
- Ryley, D. J.  
The present status of erosion  
studies in the wet stream turbine  
The definition and measurement of  
wet stream properties 8177  
See also Lee, K. 566
- Rymarz, C.  
Discrete-continuous method of  
solving dynamic boundary-value  
problems for axisymmetric bodies 8648
- Ryncarz, T.  
On a possibility of introducing the  
stresses into the stochastic theory  
of rock displacements 3517
- Rynn, N.  
A method for uniformly heating a  
metallic surface in a vacuum 6494
- Rys, J.  
Effective computation of thick-  
walled tubes in the case of linear  
plastic strain hardening 1741
- Ryterski, J.  
On the expansions in sets of func-  
tions connected with transverse  
vibrations of a beam 9437
- Ryti, M.  
On selecting the method of turbo-  
charging four-stroke diesel engines 6541
- Ryutov, D. D.  
See Plakhov, A. G. 3959
- Ryzhov, O. S.  
Applying the explosion analogy to  
the calculation of hypersonic  
flows 8877  
See also Diesperov, V. N. 3699

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Ryzhkov, S. V.  
See Busnik, V. M. 3023
- Rzaev, P. F.  
Quasi-stable heat transfer processes in solar hothouse foundations 2979
- Rzhenznikov, Yu. V.  
Profiles of long moving blade root sections 4662
- Rzheznikov, Yu. V.  
See Alekseeva, R. N. 1281
- Rzheplinskiy, D. G.  
An investigation of circulation about oceanic islands using numerical experimentation 5845
- S**
- Saada, G.  
See Di Persio, J. 3382
- Sabalayuskas, K. I.  
See Baltrushaitis, Yu. D. 375
- Sabol, A. P.  
See Stewart, R. B. 6580
- Sabouni, R.  
Mappings of linear vector spaces induced by a transformation matrix and its applications 9270
- Sabuncu, T.  
Determination of the equivalent form and wave making resistance of a submerged slender body moving in a channel by transversal wave profile measurements 9189
- Sabzevari, A.  
Aerodynamic investigations of box girder bridges 8287  
See also Scanlan, R. H. 5763
- Sachdev, P. L.  
Propagation of a bore produced by the sudden break of a dam 8832  
See also Bhatnagar, P. L. 5517
- Sachs, G.  
Extension of a new procedure for determining the ground effects from flight tests 5592
- Sachs, H. K.  
Proceedings of the First International Conference on Vehicle Mechanics, held at Wayne State University, Detroit, Mich., July 16-18, 1968 7147
- Sachs, I. B.  
See Donham, R. E. 9103
- Sachs, M. B.  
Stimulus-response relation for auditory noise fibers: Two-tone stimuli 5880
- Sackman, J. L.  
See Distefano, J. N. 872  
Kenner, V. H. 1864  
Nickell, R. E. 4899
- Sacks, A. H.  
The compressibility of blood 4987  
See also Tickner, E. G. 10021
- Sadasiva, P. R.  
See Ramachandra, R. 9745
- Sadek, S. E.  
Condensation of steam in the presence of air: Experimental mass transfer coefficients in a direct-contact system 4749
- Sadov, Yu. A.  
Satellite turnover in planar orbit by means of a flywheel system 3990  
Periodic motion of an artificial stellite with magnetic damping in a plane circular orbit 7506
- Sadovnikov, G. V.  
Investigation of simultaneous heat and mass transfer using an interferometer 2283
- Sadowski, A.  
See Knauff, M. 6211
- Saether, K.  
Torsion in spandrel beams 337
- Safar, M. H.  
An acoustic method of determining the distribution of air-nuclei which are responsible for cavitation in water 1494
- Safarian, S. S.  
Design of a circular concrete ring-beam and column system supporting a silo hopper 1123
- Safarov, Yu. S.  
Obtaining a photoelastic picture of bands by the method of a single exposure without using quarter-wave plates 304
- Saffman, P. G.  
Application of the Wiener-Hermite expansion to the diffusion of a passive scalar in a homogeneous turbulent flow 4625  
See also Moore, D. W. 8855
- Safka, J.  
See Faltus, F. 1996
- Safronchik, V. I.  
The use of epoxy resins in anticorrosive coatings for pipelines 5414
- Safronnikov, S. A.  
Determining the number of measuring points for thermal tests on turbines 1383
- Safwat, H. H.  
Absorption of thermal radiation in a hemispherical cavity 9007
- Sagalovich, V. N.  
See Zamyatina, N. A. 5573
- Sagartz, M. J.  
Transient stresses at a clamped support of a circular cylindrical shell 1869  
Membrane response of a two-layered, circular shell including the effects of an interlayer bond 3458
- Sagawa, T.  
Reduction of noise and vibrations in a hydraulic turbine 6442
- Sagdeev, R. Z.  
Stabilization of trapped particle instability in a dense plasma 3078  
See also Coppi, B. 2309  
Kennel, C. F. 2323  
Kénnel, C. F. 2324
- Sage, A. P.  
See Griffin, R. E. 7654
- Sage, W.  
The significance of particle size in sand erosion of small gas turbines 3229
- Sager, G.  
See Matthaus, W. 8163
- Sager, I.  
Thin conical shell over a square contour 2643
- Sagi, A.  
Tests of concrete strength with bored specimens 314
- Sagirow, P.  
See Kolbe, O. 4004
- Sagner, M.  
Unsteady aerodynamic field around a plate 7229
- Saha, G. P.  
See Sawko, F. 6201
- Sahn, S.  
Thermal and residual stresses in circular ring disks and their estimation: Parts 1 and 2 5819
- Saibel, E.  
See Parmet, I. L. 412  
Wallach, J. 6744
- Saida, N.  
An approximate solution of flow around blunt bodies with detached shock waves: Part 1, Axisymmetrical flow; Part 2, Asymmetrical flow 8072
- Saidov, T. Kh.  
Reaction of an elastic medium on a rectilinearly-moving smooth sphere 5265
- Saito, A.  
See Katayama, K. 4721  
Katayama, K. 9788
- Saito, H.  
Vibrations of elastically connected double-beam systems 4292  
Vibrations of an infinite beam on an elastic foundation with consideration of mass of a foundation 6944  
See also Yamaguchi, I. 2780  
Nisida, M. 4426
- Saito, M.  
See Tokuoka, T. 6113
- Saito, T.  
The character of plane submerged jet influenced by boundary 3686
- Saito, Y.  
See Hayashi, T. 7186
- Saji, Y.  
See Nishigaki, K. 8117
- Saka, H.  
See Imura, T. 2614
- Sakamoto, M.  
See Ueno, T. 7894
- Sakata, H.  
See Ukeguchi, N. 8121
- Sakharov, M. P.  
Simplification of sensitivity models in the design of self-adjusting and adaptive systems 5959
- Sakhno, Yu. A.  
Dynamics of hydraulic dividing valves 4548

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Sakota, T.  
See Ikui, T. 4834
- Saksonov, S. G.  
See Korbut, B. A. 1809
- Sakthivadivel, R.  
Clogging of porous column of spheres by sediment 8841
- Sakurai, T.  
Spin down of Boussinesq fluid in a circular cylinder 2106  
Spin down problem of rotating stratified fluid in thermally insulated circular cylinders 8890
- Salah, J. E.  
Hypersonic sphere drag from radar measurements 8070
- Saland, H.  
See Fox, H. 3105
- Salat, A.  
Nonlinear high-frequency plasma conductivity 9076
- Salat, A. R.  
See Kaw, P. K. 6583
- Salathe, E. P.  
The fundamental matrix in three-dimensional dissipative gasdynamics 5503
- Salaun, P.  
Study of the lateral motion of a free, or of a built-in semi-infinite classical beam 7810
- Salceanu, C.  
Contribution to the determination of the natural frequencies appropriate to self-excited oscillations 9471
- Salcudean, M.  
Experimental checking of an analytical method for the analysis of externally pressurized journal bearings 7597
- Salem, A. H.  
Buckling of rigidly-jointed plane trusses 1800  
Buckling of trapezoidal frames permitted to sway 7787
- Salencon, J.  
Theory of limit loads: Study of a class of kinematic solutions for the punching of a nonhomogeneous half-plane 1738  
The quasi-static contraction of a spherical or cylindrical cavity in an elasto-plastic medium 6008  
Limit pressure in an eccentric tube 7113
- Salerno, V. L.  
See Cordiano, H. V. 6853
- Salganik, P. L.  
See Barenblatt, G. I. 4398
- Salganik, R. L.  
See Barenblatt, G. I. 6205
- Salimov, R. A.  
See Buchelnikova, N. S. 1428
- Salisbury, P. F.  
See Murry, W. E. 1591
- Sallet, D. W.  
On the spacing of Karman vortices 2868
- Salmin, V. V.  
A method of finding an approximately optimal control of a space vehicle with low-thrust motor 8293
- Salmon, D. M.  
Design of linear feedback controllers for nonlinear plants 1653  
Minimax controller design 4192
- Salmon, M.  
An application of the finite element method to elastic-plastic problems of plane stress 7957
- Salomzoda, F.  
See Isachenko, V. P. 567
- Salonen, E.-M.  
A gridwork method for plates in bending 6891
- Saltanov, G. A.  
Shock polar diagrams for calculation of shocks in wet steam flows 8883  
See also Stepanchuk, V. F. 1208  
Deych, M. E. 2269
- Salter, J. P.  
Steady-state vibration 2669
- Saltzman, E. J.  
Some turbulent boundary-layer measurements obtained from the forebody of an airplane at Mach numbers up to 1.72 7297
- Salvadori, M. G.  
Spandrel-slab interaction 6250
- Salvesen, N.  
On higher-order wave theory for submerged two-dimensional bodies 5459  
See also Smith, W. E. 9191
- Salvigni, S.  
The influence of viscosity on non-isothermal flow in a vertical tube 9641
- Salyi, B.  
Analysis of spatial load applied to closed plane frame 3604
- Samain, A.  
Nonlinear stability of a beam plasma system 6564
- Samanta, B. K.  
Stress distribution in an anisotropic circular thin disk rotating with variable angular velocity 953  
Note of the stress distribution in a rotating spherical shell 1789
- Samarskii, A. A.  
On the stability of difference-operator schemes 6778
- Sambasiva Rao, N. V.  
The slow stationary flow of a viscous liquid about porous spheroids 8859  
See also Krishnamurty, V. V. G. 5660
- Sammartino, E.  
See Alwang, W. G. 2036
- Sammonds, R. I.  
Aerodynamics of Mars entry probe-lander configurations at a Mach number of 10 9660
- Samoilovich, G. V.  
Approach of space vehicles when the relative-range vector is constant 7520
- Sampson, R. C.  
A stress-optic law for photoelastic analysis of orthotropic composites 7918
- Holographic-interferometry applications in experimental mechanics 9549
- Sampson, R. E.  
Condensation on and evaporation from droplets by a moment method 2278
- Samsonov, V. A.  
On the stability of the equilibrium of a physical liquid-filled pendulum 504
- Samuelson, L. A.  
Experimental investigation of creep buckling of circular cylindrical shells under axial compression and bending 184  
Creep buckling of a circular cylindrical shell 965
- Sanakoev, T. V.  
Some results of an experimental investigation of a horizontal shake table with boundaries 8641
- Sanchez, F.  
See Bradshaw, R. L. 4054
- Sanders, J. L., Jr.  
See Duncan, M. E. 5178  
Copley, L. G. 8707
- Sanders, J. V.  
See Coppens, A. B. 5604
- Sanders, W. W., Jr.  
Load distribution in steel railway bridges 7977
- Sanderson, R. J.  
Interpretation of pressure measurements behind the reflected shock in a rectangular shock tube 9761
- Sandhu, R.  
See Salmon, M. 7957
- Sandhu, R. S.  
Finite-element analysis of seepage in elastic media 6687
- Sandi, H.  
The resistance domain of elastic-plastic redundant structures 880
- Sanditov, D. S.  
See Bartenev, G. M. 6660
- Sandler, H.  
See Ghista, D. N. 6739
- Sandor, G. N.  
On a general method of spatial kinematic synthesis by means of a stretch-rotation tensor 8797  
See also Dimarogonas, A. D. 6289  
Kaufman, R. E. 7161
- Sandri, G.  
See Ramnath, R. V. 5892
- Sandstrom, J. D.  
See Ritchie, D. W. 4703
- Sanger, N. L.  
Noncavitating and cavitating performance of several low area ratio water jet pumps having throat lengths of 3.54 diameter 403
- Sanger-Bredt, I.  
Optimal power of the liquid-hydrogen/liquid-oxygen system as a rocket propellant 2299
- Sankaranarayanan, R.  
See Kacprzyński, J. J. 481

- Sanko, Yu. P.  
See Shashkov, A. G. 7404
- Sann, R. I.  
See Shaffer, B. W. 5234
- Sannuti, P.  
See Kokotovic, P. 61
- Santathadaporn, S.  
Interaction curves for sections under combined biaxial bending and axial force 9570  
See also Chen, W. F. 4487
- Santolini, A. T.  
See Gotusso, L. 6765
- Santora, F. A.  
Interaction of astrodynamics and a Mars imaging mission 9117
- Santosham, T. V.  
The dynamic elastic behavior of mild steel, aluminum and copper as observed in wave propagation tests 5258
- Saperstein, Z. P.  
Mechanical properties of soldered joints in copper alloys 8816
- Saprykin, V. S.  
See Drozd, M. S. 3577
- Saraf, J. R.  
Transport processes in two-component plasma on the basis of Landau equation 8273
- Sarakhov, A. I.  
See Gribkova, L. V. 8337
- Saran, S.  
See Narain, J. 5307
- Sardei, F.  
See Klingenberg, H. 5749
- Sargent, T. P.  
See Kaplan, P. 738
- Sargious, M.  
Strengthening prestressed concrete pavement 7970
- Saric, W. S.  
Incompressible magnetohydrodynamic entrance flow in a plane channel 3054
- Sarkadi-Szabo, I.  
Circular cylindrical shell supported along a generator 7762
- Sarkar, B.  
A paper and pencil design technique for a class of control systems  
The correlation measure between the responses of two linear systems for transient input as a performance criterion for servomechanisms 1647  
40
- Sarkar, C. K.  
See Govindarajan, R. 4674
- Sarkisjan, V. S.  
See Verigin, N. N. 6138
- Sarma, A. V.  
Instrumentation in chemical industry: Part 3, Measurement of flow 3816
- Sarma, I. G.  
See Kesavan, H. K. 2494
- Sarma, K. S.  
See Parameswara Rao, M. 7778
- Sarma, L. V.  
See Krishna, D. V. 5470
- Sarma, L. V. K. V.  
Motion of a sphere in a viscous rotating fluid 8860
- Sarma, P. K.  
An improved correlation for film boiling heat transfer on horizontal tubes 7443
- Sarma, S. K.  
See Ambraseys, N. N. 2018
- Sarma, S. V. K.  
Determination of the moisture content and rate of movement of moisture front in unsaturated porous media 3182
- Sarofim, A. F.  
Scattering of radiation by particle layers 8336
- Sarpkaya, T.  
An analytical study of separated flow about circular cylinders  
The performance characteristics of geometrically similar bistable amplifiers  
A theoretical and experimental investigation of a confined vortex oscillator 413  
807  
8848
- Sarrate, M.  
See Hahn, G. T. 4493
- Sartor, J. D.  
Electricity and rain  
Charge transfer between uncharged water drops in free fall in an electric field 6673
- Sartory, W. K.  
See Chang, T. S. 604  
605
- Sasaki, T.  
A study on the negative pressure in parallel surface thrust bearing 4107
- Sastri, K. S. R.  
Compressive stress distribution in compacts of solids 5066
- Sastry, D. S.  
Analysis of stresses in triangular hooks by photoelastic investigation 4428
- Sastry, M. S.  
Magnetohypersonic boundary layer interactions 5740
- Sastry, U. A.  
Shear coefficients for beams of arbitrary cross sections 5137
- Sasyo, Y.  
Studies and developments of meteorological instruments for cloud physics and micrometeorology: Part 1, New instruments for measurements of the liquid water content 6716
- Sata, T.  
Ultramicro hardness tester 1968
- Satake, M.  
Some considerations on the mechanics of granular materials 2584
- Satava, V.  
Mechanism and kinetics of the decomposition of solids by a thermogravimetric method 9150
- Satchell, L. F.  
See Sorrells, R. B., III 2924
- Saterbak, R. T.  
See Hodgson, J. W. 563
- Sato, G.  
See Nozaka, M. 3961
- Sato, M.  
An experimental study on separation control of flow along cylindrical wall by jet 467
- Sato, T.  
The stability of a planar interface in dilute binary alloy  
Experimental study on luminous flame  
On the monochromatic distribution of the radiation from the luminous flame 1356  
5705  
7433
- See also Kubota, K. 243
- Sattinger, D. H.  
The mathematical problem of hydrodynamic stability 8869
- Sattler, K.  
Theorie und ihre Anwendung: Erster Band, Grundlagen und fundamentale Berechnungsverfahren: Teil A, Theorie; Teil B, Zahlenbeispiele (Textbook of statics: Theories and their applications: Vol. 1, Fundamentals and basic methods of calculation: Part A, Theory; Part B, Numerical examples) 8752
- Satyanarayana, B.  
Interaction of primary factors on swell and swell pressure 4336
- Sauer, H. J., Jr.  
Heat transfer coefficients and friction factors for longitudinally grooved tubes 2222
- Sauer, R.  
Ingenieur-Mathematik: Erster Band, Differential- und Integralrechnung, Vierte verbesserte Auflage (Engineering mathematics: Vol. 1, Differential and integral calculus, 4th revised edition) 7613
- Saul, W. E.  
Nonlinear inelastic dynamics of multi-story buildings 3628
- Saunders, P. D.  
See Welch, W. P. 318
- Savage, J. C.  
Does creep cause fracture in brittle rocks  
Spectra of S-waves radiated from bilateral fracture 1063  
2736
- Savage, S. B.  
Stress discontinuities in cohesionless particulate materials 5833
- Savchenko, V. G.  
Two-dimensional problem of thermoelasticity, taking into account physical and geometrical nonlinearity 8322

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Saville, D. A.  
Laminar free convection in boundary layers near horizontal cylinders and vertical axisymmetric bodies 8202
- Saville, J.  
See Stewart, I. McC. 524
- Savin, G. N.  
Konsentratsiya napryazhenii (Stress concentration: Book 2) 5063
- Savin, L. S.  
Use of twisting in measuring the cohesion between glass enamels and steel 8012
- Savino, C. R.  
See Young, F. M. 9784
- Savino, J. M.  
See Siegel, R. 3004
- Savolainen, G. Ya.  
See Lyapunov, V. T. 2705
- Savrov, S. D.  
See Dremine, A. N. 3906
- Savulescu, St. N.  
On the generation of flows with high degree of turbulence 9702
- Savvateev, S. S.  
Determination of the deformation characteristics of loess slumping soils 1892
- Sawa, Y.  
See Nisida, M. 4426
- Sawado, T.  
Steady and dynamic performances of a variable geometry gas turbine 9848  
See also Negishi, K. 9818
- Sawaragi, Y.  
Synthesis of open-loop optimal control with zero sensitive terminal constraints 1677  
Sensitivity considerations in optimum linear system design with unknown parameters 2530
- Sawcenko, W. I.  
Investigation of stresses in shrink fitted elements, by the photoelastic method 4429
- Sawczuk, A.  
See Boehler, J.-P. 260  
Boehler, J.-P. 888
- Sawko, F.  
Grillage analysis of composite box girder bridge decks 4489  
Computer analysis of grillages curved in plan 5407  
Fatigue of concrete and its effect upon prestressed concrete beams 6201  
Analysis of multi-cell bridges without transverse diaphragms: A finite element approach 7979  
The analysis of skew bridge decks: A new finite element approach 8758
- Sawle, D. R.  
Characteristics of the Voitenko high-explosive-driven gas compressor 4677
- Sawyer, J. W.  
Effects of pressure distributions on bluff tension-shell shapes 3408
- See also Deveikis, W. D. 4582
- Sawyer, R. F.  
Air pollution characteristics of gas turbine engines 9049
- Sawyer, R. H.  
Operational limitations in flying noise-abatement approaches 7529
- Sawyers, K. N.  
Seismic wave propagation in a self-gravitating anisotropic earth 7562
- Saxena, A. P.  
See Pradhan, B. R. 9343
- Saxena, B. K.  
See Bansal, G. D. 9602
- Saxena, S. C.  
See Saxena, V. K. 529
- Saxena, U. K.  
Building a mathematical model to predict transient drilling temperature responses 5312
- Saxena, V. K.  
Measurement of the thermal conductivity of helium using a hot-wire type of thermal diffusion column 529
- Saxl, E. J.  
Period of a torsion pendulum as affected by adding weights 8492  
See also Allen, M. 4434
- Saxl, I.  
Energies of dislocations in  $\alpha$ -uranium 7737
- Saxlova, M.  
Activation energy for elastic interaction between Frank dislocation loops and glide dislocations in F.C.C. metals 1750
- Saydah, A. R.  
See Nestler, D. E. 8206
- Sayir, M.  
The axisymmetric thin cylindrical shell of ideal plastic material: Part 2 175
- Sayir, V. M.  
Compatibility equation of the theory of plasticity and its application to spatial unsteady fields 1737
- Scala, S. M.  
Solution of the time-dependent Navier-Stokes equations for the flow around a circular cylinder 2878
- Scales, J. T.  
See Ansell, R. H. 752
- Scanlan, R. H.  
Experimental aerodynamic coefficients in the analytical study of suspension bridge flutter 5763  
See also Sabzevari, A. 8287
- Scarlett, B.  
The critical porosity of free flowing solids 252
- Schaafs, W.  
On the combined effect of diffusion and turbulence in the periodic formation of boundary layers 2142
- Schadow, K.  
Experimental investigation of boron combustion in air-augmented rockets 3910
- Schaefer, H.  
The basic affine connection in a Cosserat continuum 96  
Analysis of the motor field in a Cosserat continuum 3662
- Schaefer, W. T., Jr.  
See Sawyer, R. H. 7529
- Schaeffer, H. G.  
Newton-Raphson conjugate-gradient technique for calculation of axisymmetric buckling of shallow spherical shells with variable edge constraint 3432
- Schaffner, H.-J.  
Comparative investigations of the velocity profile and flow behavior of non-Newtonian fluids in a rotational viscosimeter 6297
- Schaffrath, G.  
See Kollmann, K. 4110
- Schallamach, A.  
Friction and frictional rise of wedge sliders on rubber 2430
- Schapker, R. L.  
 $\text{NO}_2$  chemiluminescent wake radiation 7258
- Scharf, B.  
Dichotic summation of loudness 1483
- Scharf, G.  
Normal solutions of the linearized Boltzmann equation 4599
- Scharn, H.  
Rotation of the orbital plane of a satellite 1459
- Scharpf, D. W.  
See Argyris, J. H. 4468  
Argyris, J. H. 5581  
Argyris, J. H. 5582  
Argyris, J. H. 6727  
Argyris, J. H. 6960  
Argyris, J. H. 7107
- Schatzberg, P.  
Effects of water and oxygen during rolling contact lubrication 7600
- Scheffel, H.  
See Labuschagne, T. J. 8620
- Scheiter, S.  
Vibration pattern of foundations with circular ground surface on the semi-space 6962
- Schellhaas, H.  
A method for obtaining eigenvalue bounds with applications to the buckling of a rectangular plate 7790
- Schenck, H. A.  
Improved integral formulation for acoustic radiation problems 5790
- Schenck, T.  
Stresses in orthopedic walking casts 4123
- Schenk, J.  
Thermal free convection from an ice sphere in water 2255
- Schenkels, F. A. M.  
See Schenk, J. 2255
- Scher, M. P.  
See Kane, T. R. 2549  
Kane, T. R. 8394

- Scherberg, M. G.  
Wake recirculation flows generated by flows ( $M > 1$ ) over rearward facing steps and blunt bases 7235
- Scherrer, V. E.  
Laser heating of ionized helium 9088
- Schetz, J. A.  
See Oh, S. K. 5678
- Schiehlen, W.  
Gravity-gradient stabilization of satellites in elliptical orbits 8302
- Schiff, A.  
Analysis of current methods of interpreting strong-motion accelerograms 714
- Schijve, J.  
Fatigue in aircraft structures 6200
- Schilg, G.  
On the possibility of improving the efficiency of H.P. parts of steam turbines of great output 5726
- Schilling, B. L.  
Calculated wind-tunnel-boundary lift-interference factors for rectangular perforated test sections 6456
- Schilling, C. G.  
Bending behavior of composite hybrid beams 1119
- Schimke, J.  
Approximate solution of plane orthotropic elasticity problems 5084
- Schimmerl, J.  
A simple model for analysis of vertical vibrations in a nonhomogeneous linear, elastic half-space 189  
Vertical and torsional vibrations of a nonlinear stratiform soil 251  
Determination of torsional vibrations in nonhomogeneous linear elastic continua 992
- Schindelin, J.  
Derivation of the equations of motion for a system of coupled rigid flying bodies 2553
- Schindelin, J. W.  
On the calculation of the torques about the joints of rigid chain-like arranged cluster of flying bodies 7512  
Space vehicle attitude stabilization and control by a three-degree-of-freedom control moment gyro with controllable gyro spin velocity 9111
- Schindler, H. D.  
Continuous-phase mass-transfer coefficients for liquid extraction in agitated vessels 7457
- Schindler, K.  
See Parkinson, D. 3939
- Schlack, A. L., Jr.  
Gyroscopically induced vibrations of circular plates 4297  
See also Kessel, P. G. 1830  
Kessel, P. G. 6080
- Schlafer, J. L.  
Experimental evaluation of incremental theories for nonproportionate loading of thin-walled cylinders 5117
- Schlag, A.  
Experimental research on spillway shaft flow 2836
- Schlegel, R. G.  
Helicopter rotor noise prediction and control 7527
- Schleiff, M.  
See Schubert, H. 7625
- Schlichting, H.  
Aerodynamik des Flugzeuges: Zweiter Band, zweite Auflage, Aerodynamik des Tragflügels (Teil II), des Rumpfes, der Flügel-Rumpf-Anordnung und der Leitwerke (Aerodynamics of aircraft: Vol. 2, 2nd edition, Aerodynamics of bodies and empennages) 2915  
Some new results on the theory of wings, particularly of hypersonic tenance 3763
- Schlottmann, D.  
Strain of high-strength screws 7163
- Schlums, K.-D.  
Equations of forces and motion of power-transmission medium in V-shaped pulleys 4506
- Schmeissing, H. N.  
See Polakowski, N. H. 4378
- Schmelling, B.  
See Reimpell, J. 2023
- Schmid, H.  
See Laschka, B. 8922
- Schmid, U. A.  
See Massimo, L. 9854
- Schmid, W.  
Kinematics of a Cardan-suspended free gyroscope on the rotating Earth 2557
- Schmidt, A. O.  
Tools and engineering materials with hard, wear-resistant infusions 1076
- Schmidt, B.  
Electron beam density measurements in shock waves in argon 7375
- Schmidt, D.  
See Mennicken, R. 765
- Schmidt, E.  
Properties of water and steam in S-i-units: kJ, bar, 0-800°C, 0-1000 bar 9770
- Schmidt, K.  
The influence of the extensional rigidity on the bending of elastic straight bars: Part 1, Axially compressed bar at large deflection 6056  
The influence of the extensional rigidity on the bending of elastic straight bars: Part 2 6057
- Schmidt, L. C.  
See Deutsch, G. P. 9597
- Schmidt, M.  
Shaft spillways for high-water discharge 1166
- Schmidt, R.  
Large deflections of multisandwich shells of arbitrary shape 1784
- Buckling of deep arches at large deflections 5193  
See also DaDeppo, D. A. 1797  
DaDeppo, D. A. 6933
- Schmieder, L.  
Shell theory with shear deformations in general coordinates: Parts 1 and 2 6037
- Schmitt, H.  
See Becker, E. 2102
- Schmitt-Von Schubert, B.  
Existence and uniqueness of normal shock waves in gas-particle mixtures 7244
- Schneider, E.  
Determination of loads on aircraft structures with the aid of strain gages 8737
- Schneider, H. J.  
The use of Boolean transition matrices in compiling 5917
- Schneider, J. J.  
The influence of propulsion systems on extremely large helicopter design 9102
- Schneider, S.  
See Creodon, J. E. 4820
- Schneider, W.  
On the effect of heat addition in hypersonic flow around spheres and cylindrical shells 1203
- Schneider, W. A.  
Dynamic correlation analysis 6697
- Schneider, W. R.  
See Burgel, B. 8527
- Schnobrich, W. C.  
See Pecknold, D. A. 928  
Carter, R. L. 5229
- Schnurr, N. M.  
Heat transfer to carbon dioxide in the immediate vicinity of the critical point 2997
- Schoeberle, D. F.  
See Valentin, R. A. 5816
- Schoenberg, M.  
Large deflections of viscoelastic rings 915
- Schoenhals, R. J.  
See Kural, O. 34
- Schoepfel, R. A.  
Rolling and sliding contact stress parameters in elastohydrodynamic lubrication 6725
- Schofield, W. H.  
See Perry, A. E. 477
- Scholes, W. E.  
A note on the repeatability of field measurements of airborne sound insulation 4030
- Scholten, R.  
See Flemming, M. 7530
- Schon, J. P.  
See Comte-Bellot, G. 9701
- Schonauer, G.  
Electron- and light-optical determination of the flattening factor and size of oil droplets 5837

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Schonauer, G. (*Continued*)  
The electron-microscopic determination of droplet-size distribution in oil mists using the flattening factor 5839
- Schonauer, W.  
Analysis of a laminar boundary layer with suction by a finite difference process 5567
- Schonheinz, H.  
Bounding the eigenvalues of ordinary differential equations by a difference process 6753
- Schonhorn, H.  
Surface treatment of polypropylene for adhesive bonding 8818
- Schoop, H.  
Stability of a spatial hinged framework 3426
- Schorr, C. J.  
Constant chamber pressure throttling of an expansion-deflection nozzle 9852
- Schrade, H. O.  
See Giannotta, S. F. 4822
- Schrader, K. H.  
Influence of initial stresses on static stability 6055
- Schram, P. P. J. M.  
Persistence of MHD-stability in the two-fluid model 3946
- Schreier, S.  
On the flow of an unsteady, compressible boundary layer over a semi-infinite flat plate whose temperature is varied with time 3737
- Schreiner, H. J.  
See Kochendorfer, A. 9522
- Schreiner, R. N.  
See Galbraith, F. W. 4008
- Schrier, H. M.  
See Weller, E. J. 4382
- Schroder, H.  
See Hansen, J. 410
- Schroder, H. J.  
See Wehnert, W. 1412
- Schroder, R.  
On the determination of fluid properties and velocity distributions in pipe flows of simple non-Newtonian fluids: Part 1, Rheological foundation 1152  
On the determination of fluid properties and velocity distributions in pipe flows of simple non-Newtonian fluids: Part 2, Rheometry by means of laminar pipe flows 1153  
On the problem of the mechanical oscillation: Ground resonance 9092
- Schroeder, M. R.  
Spatial averaging in a diffuse sound field and the equivalent number of independent measurements 3126  
See also Sessler, G. M. 3144
- Schubert, D. W.  
Theoretical and experimental investigation of electrohydraulic vibration isolation systems 8633
- Schubert, E. D.  
Envelope versus microstructure in the fusion of dichotic signals 2447
- Schubert, G.  
High velocities induced in a fluid by a travelling thermal source 2289
- Schubert, H.  
On two boundary value problems of the inhomogeneous system of Cauchy-Riemann differential equations: Application to a problem of steady, transonic flow 7625
- Schubert, L. K.  
Refraction of sound by a jet: A numerical study 7537
- Schugert, K.  
See Eckelt, W. R. 7283
- Schulenberg, J. R.  
Uniqueness theorems for a class of wave propagation problems 3481
- Schuler, K. W.  
See Fosdick, R. L. 839
- Schuler, M. F.  
See Carman, C. M. 9536
- Schuller, F. T.  
Experiments on the stability of water-lubricated three-sector hydrodynamic journal bearings at zero load 10013
- Schultze-Gebhardt, F.  
On the strain dependence of Young's modulus for pre-stretched polyamide - 6 filaments 7722
- Schultz-Grunow, F.  
Demixing phenomena in shear flows of nonsedimenting suspensions 1155
- Schultze, M.  
Qualities of toggle levers in single and series arrangements 8001
- Schumann, G.  
See Moller, U. 9982
- Schumann, W.  
See Wuthrich, W. 6884
- Schuster, B. G.  
Ballistics of the modern-working recurve bow and arrow 2357
- Schutze, B.  
A new computation method for straight split connecting heads 6291
- Schwab, F.  
Surface-wave dispersion computations 8659
- Schwan, H. P.  
Biological Engineering 5881
- Schwaneke, A. E.  
An improved torsion pendulum for measuring internal damping 5373
- Schwar, M. J. R.  
Laser techniques in combustion research 3037  
The measurement of velocity by applying schlieren-interferometry to Doppler-shifted laser light 5617
- Schwartz, J.  
Solutions of the equations of equilibrium of elastic dielectrics: Stress functions, concentrated force, surface energy 8511
- Schwartz, M.  
Graphical representation of plane elastic wave propagation in flat plates 5267  
Information transmission, modulation, and noise: A unified approach to communication systems, 2nd edition 9238
- Schwarz, H.  
The root locus method as a means of judging the stability of duplex control loops 792
- Schwesinger, P.  
See Hampe, E. 1778
- Schwiderski, E. W.  
On the axisymmetric vortex flow over a flat surface 2153
- Schwieger, H.  
Graphical methods for determining the resulting photoelastic effect of compound states of stress 302  
Investigations on the mechanical loading of ring-shaped disks impacted at the edge 8665
- Scibbe, H. W.  
See Coe, H. H. 6732
- Scordeilis, A. C.  
Analytical study of tubular tee-joints 5155  
Membrane stresses in hyperbolic paraboloid shells having an arbitrary quadrilateral shape in plan 9379  
See also Ramirez, H. D. 3390
- Scott, B. F.  
Boundary layer effects in the turbulent spiral vortex flow of a compressible fluid 5553
- Scott, C. J.  
Measurements of average heat transfer coefficients for a mesh simulating porous parachute cloth 5663
- Scott, D.  
Composite materials for rolling bearing cages 9205
- Scott, D. S.  
See Rhodes, E. 2859
- Scott, R. A.  
Transient nonaxisymmetric wave propagation in an infinite isotropic elastic plate 226  
Transient elastic waves in an inhomogeneous layer 7859  
Line loads moving on the surface of an inhomogeneous elastic half space 8531  
Near-field transient waves in anisotropic elastic plates for two and three dimensional problems 8657
- Scrimger, J. A.  
Volume scattering-strength profiles in the Northeast Pacific Ocean 2380
- Scriven, L. E.  
See Finlayson, B. A. 3839
- Scriven, J. C.  
See Bryant, A. H. 2813
- Scrutton, R. F.  
The geometry of the shear zone in metal cutting 274

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Scudder, H. J., III  
See Kincaid, T. G. 8311
- Seal, A. K.  
See Roy, T. K. 7093
- Sealey, C. J.  
An introduction to linear control theory 5938
- Sears, W. R.  
Annual review of fluid mechanics: Vol. 1 5451  
Aerodynamics, noise, and the sonic boom 5793
- Seban, R. A.  
See Slegers, L. 559  
Cho, S. M. 3881  
Mills, A. F. 5689
- Sebekin, B. I.  
See Voyt, S. S. 4065
- Sebestyen, G.  
See Varga, J. J. 4679
- Seddon, J.  
Boundary-layer interaction effects in intakes with particular reference to those designed for dual subsonic and supersonic performance 8109
- Sedlacek, Z.  
Perturbation approach to plasma oscillations 6570
- Sedov, L. I.  
Models of continuous media with internal degrees of freedom 4527  
Metody podobiya i razmernosti v mekhanike (Methods of similarity and dimensional analysis in mechanics) 8433  
See also Parkus, H. 384  
Berdichevskii, V. L. 5133
- Sedunov, Yu. S.  
See Levin, L. M. 2421
- Seebass, R.  
See Tang, J. Y. T. 3075  
Tang, J. Y. T. 7488
- Seed, H. B.  
Characteristics of rock motions during earthquakes 3519  
The fourth Terzaghi lecture: Landslides during earthquakes due to liquefaction 6123  
See also Lee, K. L. 9496
- Sega, S.  
See Kinbara, T. 1399
- Segal, V. M.  
See Makushok, E. M. 9362
- Segal, Ya. S.  
Use of the recording of the flexure of a specimen for the study of fatigue 4410
- Segall, R. L.  
See Kim, H. C. 898
- Seggelke, P.  
The buckling process for stiffened cylindrical shells 7795
- Seide, P.  
Effect of internal pressure on an infinite cylindrical shell subjected to concentrated radial loads 8570
- Seidel, W.  
Early design-stage flutter investigation by means of a subsonic flutter model and mathematical analysis 9893
- Seidman, T. I.  
See Mizel, V. J. 8187
- Seigel, A. E.  
On the use of a spring-mass to approximate a bar-mass system subjected to a rectangular force pulse 1862
- Seigle, L. L.  
See Cosgrove, G. J. 6860
- Seippel, C.  
Problems connected with L. P. blades of large steam turbines 4772
- Seireg, A.  
Behavior of in vivo bone under cyclic loading 6735
- Sekas, N. J.  
See Stone, J. R. 7451
- Sekerzh-Zenkovich, Ia. I.  
On a form of steady waves of finite amplitude 2936  
The propagation of long waves from strait into an open basin of variable depth: Part 1 2937
- Sekerzh-Zenkovich, S. Ya.  
Diffraction of plane waves by a circular island 3778
- Sekerzh-Zenkovich, Ya. I.  
Theory of stationary waves of finite amplitude caused by pressure periodically distributed on the flow surface of an infinitely deep heavy fluid 5599  
Finite-amplitude stationary waves generated by a periodic pressure distribution on the surface of a flowing heavy liquid of finite depth 5600
- Sekhon, R. S.  
Snow size spectra and radar reflectivity 9987
- Seki, M.  
A method of estimation of program fatigue life 8719
- Sekine, H.  
See Tamate, O. 5204
- Sekiya, T.  
See Takeuti, Y. 1503
- Seldner, K.  
Computer and engine performance study of a generalized parameter fuel control for jet engines 9283
- Seleznev, L. I.  
On stability of a two-phase system 2198
- Self, S. A.  
See Ristic, V. M. 9878
- Selheimer, H. E.  
Adhesion of comminuted basalt rock to metal alloys in ultrahigh vacuum 4374
- Sell, G.  
An electrically operated hand 5886
- Selmov, V. M.  
See Kuklenko, N. P. 3451
- Selna, L. G.  
A concrete creep, shrinkage, and cracking law for frame structures 4481
- Semenenko, V. A.  
See Rozenblat, M. A. 823
- Semenikhin, P. V.  
Parameters and weight characteristics of Vernier engines 3049
- Semenishin, E. M.  
See Akselrud, G. A. 3180
- Semenov, A. A.  
Design features of a high-torque hydraulic motor 2177
- Semenov, E. I.  
Stresses and forces during forging of symmetrical shapes 9517
- Semenov, E. S.  
See Sokolik, A. S. 3904  
Sokolik, A. S. 7460
- Semenov, M. V.  
The synthesis of partly balanced plane mechanisms 4519  
Balancing of spatial mechanisms 8809
- Semenov, Yu. P.  
See Romanenko, P. N. 3731
- Semenovker, I. E.  
A study of the performance of riser-downcomer tubes at supercritical pressure 1384  
See also Lokshin, V. A. 2993
- Semko, O. Ya.  
Automation of a device for determining the structural-geometrical characteristics of dispersed materials 4532
- Semotan, J.  
Startle and other human responses to noise 8315
- Semotanova, M.  
See Semotan, J. 8315
- Semple, H. M.  
See Black, M. M. 6023
- Sen, A. R.  
Effect of viscosity on the transfer of energy in forced water waves 5595
- Sen, B.  
Trilinear coordinates and boundary value problems 7626
- Sen, H. K.  
See Neogi, P. K. 3599
- Sen, S. K.  
On triangular decompositions to evaluate the determinant of an arbitrary square matrix  $A$  including the solution of  $Ax = b$  and on the related computational recurrence relations 2455
- Senda, K.  
A family of integral transforms and some applications to physical problems 3282  
See also Kishida, K. 312
- Sengbush, R. L.  
See Foster, M. R. 1534

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Sen Gupta, D. K.  
Theoretical evaluation of variation in head flow characteristic with outlet blade angle in volute type radial flow centrifugal pumps 5613
- Sengupta, G.  
See Chenchanna, P. 9465
- Senin, A. G.  
Clipped-function recognition of Gaussian signals 4179
- Senin, N. V.  
See Ermolaev, N. N. 6154
- Senitskii, Yu. E.  
Analysis of a shallow spherical shell excited by an arbitrary dynamic load 933
- Sensenig, C. B.  
A shell theory compared with the exact three-dimensional theory of elasticity 930
- Senski, G.  
Determination of electron density in a jet or argon plasma, with the aid of optical pyrometer 9086
- Senturk, F.  
Mechanics of bed formations 1164
- Serbyn, M. R.  
Measurement of the phase of vibrational displacement by a laser interferometer 223
- Serdengecti, S.  
Optimum design of removable taper metal extrusion die assembly 1906
- Serebryakov, V. I.  
See Lunevskii, I. I. 5371
- Serebryakova, A. G.  
See Permyakov, B. A. 564
- Serebryakova, N. N.  
See Zlotnikova, N. V. 2554
- Serednitskaya, M. A.  
See Timrot, D. L. 8980
- Serensen, S. V.  
Criteria of the strength of materials for steady loading in the case of elevated temperatures 288  
Probability strength calculation under steady cyclic loading and fatigue similarity conditions 7912
- Sergeev, V. L.  
Experimental investigation of heat transfer in the region of a stagnation point 3899
- Sergeeva, L. V.  
See Vukalovich, M. P. 3845
- Sernas, V.  
The initial vapor bubble growth on a heated wall during nucleate boiling 9013
- Serov, V. I.  
Device for continuous accurate blending of gases 5026
- Seshadri, D. N.  
Thermodynamic properties of aniline 6475
- Seshagiri, N.  
See Keshava Murthy, K. 3676
- Sesonske, A.  
See Hochreiter, L. E. 530
- Sessler, G. M.  
Toroidal microphones 3144
- Sestak, B.  
Investigation into the beginning of plastic deformation of iron single crystals 1749
- Sestini, G.  
Problems analogous to Stefan's and their present development 8
- Seteanu, I.  
Series for the study of a viscous flow 6328
- Sevastianov, R. I.  
On a special feature of boiling crisis in channels 3876
- Severo, N. C.  
Generalizations of some stochastic epidemic models 6767
- Severyanin, V. S.  
The combustion of solid fuel in a pulsating flow 6534
- Sevostyanov, G. D.  
Flow of a sonic free gas stream around a profile 2089
- Sewell, M. J.  
A method of postbuckling analysis 8582
- Sexsmith, R. G.  
Extending the interpretation of concrete strength data 342
- Sforza, P. M.  
A quasi-axisymmetric approximation for turbulent, three-dimensional jets and wakes 7220
- Shabaik, A. H.  
Comparison of two complete solutions in an axisymmetric extrusion with experiment 4377  
See also Jovane, F. 3521
- Shabalin, V. I.  
Mechanism of the fatigue of metals for stresses above the yield point 8726
- Shablovskii, A. S.  
See Shulgin, V. V. 7676
- Shabrin, A. N.  
Energy-method of studying the laminar-to-turbulent flow transition 4615
- Shachnev, V. A.  
On the correctness of certain problems of the membrane theory of shells of negative curvature 8553  
See also Bykov, D. L. 7728
- Shade, A. H.  
See Jacobs, J. D. 1361
- Shadley, J. R.  
See Rao, H. S. 7708
- Shadman, D.  
Method of orthogonal polynomials in plane theory of elasticity 5056
- Shafarenko, E. M.  
See Zaretskii, Yu. K. 7877
- Shaffer, B. W.  
Residual stresses and displacements in wide curved bars subject to pure bending 914  
Forced transverse vibration of a solid viscoelastic cylinder bonded to a thin casing 5234
- Shafi, M.  
See Elvery, R. H. 7116
- Shah, A.  
See Pellandini, F. 9309
- Shah, A. H.  
Three-dimensional and shell-theory analysis of elastic waves in a hollow sphere: Part 1, Analytical foundation; Part 2, Numerical results 7850
- Shah, C. G.  
See Basava Raju, B. 3400
- Shahin, M.  
Pipe drainage in thin aquiferous layers 4050
- Shahinpoor, M.  
See Nowinski, J. L. 4281
- Shahrokh, F.  
See Hube, F. K. 1352
- Shai, I.  
The mechanism of and stability criterion for nucleate pool boiling of sodium 8218
- Shaidakov, V. I.  
Vortex ring method applied to the aerodynamic design of lifting systems 6411
- Shaidurov, G. F.  
See Briskman, V. A. 4811
- Shail, R.  
Some steady state thermoelastic stress distributions in the vicinity of an external crack in an infinite solid 669  
The impulsive Reissner-Sagoci problem 9489
- Shakhov, E. M.  
On the application of the Enskog method to the Boltzmann equation 3842  
Boltzmann equation and momentum equations in curvilinear coordinates 6577  
Molecular flows from a gas stream which flows into a vacuum 7281
- Shakirov, A. A.  
See Borshchevskii, Yu. T. 8339
- Shalvi, S.  
See Sivan, R. 5921
- Shama, M. A.  
Effect of ship section scantlings and transverse position of longitudinal bulkheads on shear stress distribution and shear carrying capacity of main hull girder 7148
- Shamboul, A. B.  
See Hruska, K. 6999
- Shamir, U.  
Water distribution systems analysis 398
- Shampine, L. F.  
Error bounds and variational methods for nonlinear boundary value problems 3288
- Shamroth, S. J.  
On integral methods for predicting shear layer behavior 4622
- Shandorov, G. S.  
Calculation of the axis of a jet in a cross flow 1189

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Shankar, P. N.  
A kinetic theory of steady condensation 5688
- Shankaranarayana Rao, T. V.  
See Ramabhadran, S. 8921
- Shanklin, R. V., III  
Diagonal conducting wall MHD generator channel flows 4791
- Shannon, R. L.  
Forced laminar flow convection in a horizontal tube with variable viscosity and free-convection effects 4731
- Shapiro, A. H.  
Peristaltic pumping with long wavelengths at low Reynolds number 3246  
See also Olsen, J. H. 2170
- Shapiro, A. S.  
Hydraulic drag at a centrifugal pump impeller 3800
- Shapiro, G. S.  
Deformation of bodies with different tensile and compressive strengths 5984  
See also Viktorov, V. V. 1112
- Shapiro, I. I.  
See Zak, P. S. 7155
- Shapiro, J. N.  
See Knopoff, L. 9779
- Shapkin, V. V.  
See Plakhov, A. G. 3959
- Sharda  
A many server queueing problem with variable departures 7632
- Sharinov, I. L.  
Calculation of a closed cylindrical cantilevered shell for concentrated edge loads 1781  
The effect of a concentrated load, applied at a free end, on a cylindrical shell 7769
- Sharma, G. K.  
Combined free and forced convection heat transfer from a heated tube to a transverse air stream 2985
- Sharma, K. C.  
Ultrasonic attenuation in liquid metals 667
- Sharma, K. K.  
Experimental study of natural convection heat transfer from a vertical plate in a non-Newtonian fluid: Part 1 9002  
Experimental study of natural convection heat transfer in a non-Newtonian fluid: Part 2, Horizontal plate 9003
- Sharma, M. M.  
Mass transfer in plate columns 8861
- Sharma, S. D.  
Wave resistance of a semi-submerged body and the effect of a super-structure protruding from the water 1560  
Some results concerning the wave-making of a thin ship 3218
- Sharma, S. S.  
See Syal, I. C. 6053
- Sharmar, P. W.  
An experimental and theoretical investigation of simply-supported thin plates subjected to lateral load and uniaxial compression 6036
- Sharnin, Yu. K.  
See Polyakov, V. E. 4188
- Sharp, M. L.  
Field tests of aluminum orthotropic bridge deck 7978
- Sharpe, W. N., Jr.  
Gage length errors in plastic strain wave measurement 5286  
Dynamic strain measurement with the interferometric strain gage 9552
- Shashkov, A. G.  
A new method of determining the thermal activity of non-metals 1311  
Determining the thermal conductivities and thermal diffusivities of liquids by the "probe" method 7404
- Shashkov, O. K.  
Calculation of flow distribution in complex heating networks by iterative linearization method 6306
- Shatil, A. A.  
Estimation of burnout of natural gas over the flame length 3908
- Shatilov, A. P.  
See Rozhdvestvenskiy, I. B. 3844
- Shatrovskaya, G. N.  
See Arkadev, B. A. 5645
- Shats, A. S.  
See Kapustin, N. M. 8701
- Shaw, D.  
Suitability of the flash method for measuring the thermal diffusivity of cracked specimens 536
- Shaw, J. C.  
See Delatycki, O. 4242
- Shaw, L. M.  
Comparison of predicted and measured low density plume impingement effects 9042
- Shaw, M. M.  
The effect at  $M = 1.7$  of removing swept endwalls from a wedge compression intake 6414
- Shaw, R. P.  
Transmission of plane waves through layered linear viscoelastic media 6995
- Shcheglov, O. S.  
High frequency oscillations in beam-plasma interactions 1429
- Shchelkin, K. I.  
Intensification of weak shock waves by a cellular flame 8241  
See also Aslanov, S. K. 9121  
Aslanov, S. K. 9919
- Shchennikov, V. V.  
A class of exact solutions of the Navier-Stokes equations for a compressible heat-conducting gas 8888
- Shchepetilnikov, V. A.  
The determination of the mass centers of mechanisms in connection with the problem of mechanism balancing 8002
- Shcherbakov, V. M.  
Study of the strength of plastic sandwich construction 170
- Shcherbina, D. M.  
Installation for evaluating spectral reflection factors 551
- Shcherbinin, P. P.  
See Stakhanov, I. P. 8977
- Shcherbo, M. N.  
See Vasilyev, Yu. I. 7005
- Shchesnyuk, A. M.  
See Loeovoi, B. L. 8708
- Shchitnikov, V. K.  
See Sadovnikov, G. V. 2283
- Shchukin, A. I.  
See Koritysskii, Ya. I. 3443
- Shchukin, E. D.  
See Kozyrev, S. P. 6726
- Shchukin, V. K.  
Heat transfer in an annular canal between surfaces rotating in the same direction 2230  
Influence of temperature field on stability of fluid motion between rotating cylinders 7196  
See also Kovalnogov, A. F. 1376
- Sheaffer, Y. S.  
See Marvin, J. G. 2121
- Sheard, F. W.  
See King, P. J. 4315
- Sheeran, W. J.  
Simulation of earth-storable liquid bipropellants with gaseous reactants 2294
- Shefter, G. M.  
Sonic flow of viscous heat conducting gas around bodies of revolution 6341  
Influence of viscosity and heat conductivity on the propagation of sound impulses in an inhomogeneous moving medium 9928
- Sheikh, M. A.  
Strength and behavior of two-span continuous pretensioned concrete beams 5404  
See also Hope, B. B. 4470
- Shekhter, B. I.  
See Chelyshev, V. P. 9123
- Shekhtman, Yu. V.  
Effect of lack of symmetry of the position of the reinforcements with respect to the medial surface of a thin cylindrical shell on the magnitude of the critical forces 9418
- Shelementev, G. S.  
Optimal combination of control and tracking 5944  
See also Albrekt, E. G. 2552
- Sheludiyakov, E. P.  
Calculation of heat capacity  $C_p$  of damp steam from acoustical data 5634
- Shemegan, Yu. M.  
See Troshchenko, V. T. 688
- Shemonaev, G. P.  
See Makhankov, V. I. 3847
- Shemyakin, E. I.  
See Khristianovich, S. A. 897

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Shen, C. N.  
See Wittler, M. 2468
- Shen, M. C.  
Stationary nonlinear waves in a stratified fluid with respect to a rotating cylindrical system 4645  
Asymptotic theory of unsteady three-dimensional waves in a channel of arbitrary cross section 8935
- Sheninger, E. L.  
Experiments of nonsway structural subassemblages 7110
- Shepelev, Yu. S.  
Apparatus for determining the thermal fatigue strength of cast iron 3582
- Shepelevskaya, N. N.  
See Kilchevskii, N. A. 5755
- Shepherd, R.  
Predictions of the response of a torsionally unbalanced high-rise building to earthquake loading 2019  
See also Walpole, W. R. 3623  
Walpole, W. R. 3627
- Sheppard, C. W.  
See Halikas, G. 4982
- Sheppard, R. G.  
The nonsteady flow of fluids through expandable tubes 2944
- Sherbourne, A. N.  
Limit analysis of continuous prestressed beams 329
- Shercliff, J. A.  
Fluid motions due to an electric current source 5739
- Sheremet, E. M.  
See Shevtsov, G. A. 8435
- Sherman, D. R.  
Torsionally stiff columns under eccentric loads 8585
- Sherman, M.  
Thermal instability in a spherical region heated from below 5667  
See also Catton, I. 7423
- Sherman, P. M.  
An approximate solution for the flow far downstream of condensation in a hypersonic nozzle 7250
- Shermazan, I. V.  
Comparison between various methods of separating the components of impact toughness 9561
- Shermergor, T. D.  
See Fokin, A. G. 2583  
Fokin, A. G. 5087
- Sherstyuk, A. N.  
Heat transfer in a turbulent boundary layer at the wall 7295
- Shervashidze, V. V.  
See Nedavnyi, V. S. 8469
- Sherwood, A. A.  
Type synthesis of spatial guidance linkages with moving spherical joints 7160
- Shesterikov, S. A.  
See Aliev, R. L. 3424  
Lokoshchenko, A. M. 8599
- Sheu, C. Y.  
Optimal plastic design of circular and annular sandwich plates with piecewise constant cross section 332  
Minimum-weight design with piecewise constant specific stiffness 1995
- Sheu, G. -Y.  
Optimal design of sandwich beams for elastic deflection and load factor at plastic collapse 4251
- Shevchenko, O. A.  
See Fil, V. D. 3143
- Shevchenko, R. I.  
See Gusev, G. V. 5131
- Shevchenko, V. V.  
Use of the Earth as a selenographic reference for lunar images obtained from outer space 4001
- Shevchenko, Y. N.  
Approximate methods for solving thermoplasticity problems allowing for the history of loading 4034
- Shevelev, A. A.  
Thermal stresses in a cylinder and choice of optimal heating conditions 2391
- Shevelev, Yu. D.  
Numerical calculation of the three-dimensional boundary layer in an incompressible fluid 8104
- Shevlyakov, Yu. A.  
An investigation of the deformations of the junction of a spherical bottom with a cylindrical container 9330
- Shevtsov, G. A.  
Reliability of redundant systems in the presence of catastrophic and gradual failures 8435
- Shevtzov, V. L.  
See Litoshenko, A. K. 2231
- Shi, Y. Y.  
See Pottsepp, L. 3771
- Shiau, J. F.  
See Marris, A. W. 8501
- Shibaeva, L. V.  
See Tulinov, V. F. 4074
- Shibata, H.  
See Hata, S. 9277
- Shibuya, Y.  
See Miyagawa, M. 5998
- Shieh, L. -S.  
Analysis of irrational transfer functions for distributed-parameter systems 9269
- Shieh, R. C.  
Closed-form solutions to problems of wave propagation in a rigid, work-hardening, locking rod 4324  
On certain closed-form solutions to problems of wave propagation in a strain-hardening rod 7846  
See also Huang, N. C. 8580
- Shield, R. T.  
See Caughey, T. K. 2509  
Prager, W. 2789
- Shields, F. D.  
Sound velocity and absorption in low-pressure gases confined to tubes of circular cross section 6641
- Shifrin, E. G.  
On flows with a subsonic singularity on the shock wave 438  
Flow past a thin wedge in a wind tunnel with partially perforated walls at high subsonic velocities 2186  
On the extremal properties of entropy on a critical streamline 5483  
Convexity of a shock wave in the subsonic segment in plane flow 7247
- Shifrin, K. S.  
Evaporation of clouds in a radiation field 733  
See also Chayanova, E. A. 4943
- Shigetomi, F.  
See Ishiguro, R. 7413
- Shih, C. C.  
See Young, D. F. 756
- Shih, C. -S.  
Influence of sediments on transport of solutes 4553
- Shih, Y. -P.  
See Koppel, L. B. 2538
- Shikin, I. S.  
Solution to equations of gravitation in a homogeneous anisotropic medium 5970
- Shilenkov, V. F.  
See Askinazi, B. M. 6287
- Shilgorin, F. L.  
See Radchik, V. S. 750
- Shilin, Yu. P.  
Experimental investigation into the causes of distortion of the low pressure cylinder ring of a steam turbine 578
- Shilov, A. A.  
See Laricheva, V. V. 5972
- Shilova, O. D.  
See Egorov, K. E. 6145
- Shiltere, M. Ya.  
Machine derivation of arithmetic identities 4181
- Shima, A.  
The behavior of a spherical bubble in the vicinity of a solid wall 4046
- Shimada, H.  
Production of brake disk by SiC permanent mold 2819
- Shimanuki, A.  
Formulation of vertical distributions of wind velocity and eddy diffusivity near the ground 6704
- Shimizu, S.  
On the dynamical stress distribution of stiffened plate during vibration 6087  
An experiment on the effect of the pre-strain on the fatigue strength of mild steel 7909
- Shimko, N. G.  
See Cherpakov, P. V. 2218
- Shin, S.  
See Ikawa, H. 1147

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Shin Be, Y. K.**  
Automatic limit analysis of triangulated space structures 8761
- Shinbrot, M.**  
The solution of some integral equations of Wiener-Hopf type 9229
- Shindiapin, G. P.**  
The effects of viscosity and heat conduction with weak Mach reflection 6353
- Shindo, M.**  
See Takahashi, R. 2257
- Shinozuka, M.**  
Random vibration of linear structures 4307  
See also Yang, J.-N. 1632
- Shioda, S.**  
Flows of a weakly ionized gas between parallel cold walls 5733
- Shioya, S.**  
On the thermal stresses of a semi-infinite plate with a circular inclusion under uniform heat flow 4895
- Shippy, D. J.**  
Matrix eigenvalues by numerical integration 26
- Shirakawa, K.**  
See Mizoguchi, K. 357
- Shiralkar, B. S.**  
Deterioration in heat transfer to fluids at supercritical pressure and high heat fluxes 561
- Shiratori, E.**  
Studies of the anisotropic yield condition 6017
- Shrinkulov, T.**  
Contribution to the solution of the problem of the one-dimensional consolidation of three-phase soil media exhibiting nonlinear creep 7012
- Shirkot, K.**  
Couette flow of dipolar fluids 2828
- Shirokov, V. N.**  
See Solomin, V. I. 2629
- Shirokova, N. L.**  
Regularities in the interaction of aerosol particles in a sound field 3167
- Shirtcliffe, T. G. L.**  
An experimental investigation of thermosolutal convection at marginal stability 2988  
The development of layered thermosolutal convection 2989
- Shiryayev, A. N.**  
See Lipster, R. Sh. 4151
- Shishov, A. D.**  
Evaluating inflection points of a deflection curve in designing dynamometers of a complicated shape 5618
- Shitsman, M. E.**  
Temperature conditions in tubes at supercritical pressures 3883
- Shivaswamy, M. S.**  
See Syamala Rao, B. C. 3667
- Shivers, J. P.**  
See Huston, R. J. 2337  
Parlett, L. P. 3979
- Shklyarov, L. I.**  
See Rvachev, B. L. 1620
- Shkoller, B.**  
See Pekeris, C. L. 8871  
Pekeris, C. L. 8872
- Shkolnik, V. M.**  
Convergence of strain-gage bridges balanced with a phase-sensitive indicator 5355
- Shkopek, Ya.**  
Examination of water drainage in guide vanes of turbines during operation 3044
- Shkutin, L. I.**  
Critical value of pressure for a shallow spherical shell 9600
- Shlanchyauskas, A. A.**  
Velocity profiles and surface friction in the turbulent boundary layer on the flat plate in the flow of liquids 8902  
Turbulent heat transfer of a flat plate to liquids with variable viscosity 9808
- Shlazha, Yu.**  
Asymptote of the macroparameters of a gas in the case of hypersonic motion about the nose of a plate 8081  
Asymptotic behavior of fluxes of mass, momentum and energy on a semi-infinite plate in the case of large  $M$  8089
- Shleifer, M. A.**  
Effect of load concentration on stresses in gear tooth fillets 4511
- Shlenskii, O. F.**  
Calculation of heat conduction in polymer materials during thermal degradation 1319  
Calculation for flexure of rods made from visco-plastic material 5138
- Shmakov, V. P.**  
A method of integrating the equations for the axisymmetric vibrations of a spherical shell 6957
- Shmatkova, A. A.**  
Rolling of a rigid cylinder on a viscoelastic half plane 9350  
See also Galin, L. A. 1728
- Shnee, Ya. I.**  
Influence of an annular slit at the inlet on the operation of a turbine stage with a sharply expanding flow section 7360
- Shneiderovich, R. M.**  
See Gusenkov, A. P. 681  
Larionov, V. V. 8722
- Shoemaker, A. K.**  
Factors influencing the plane-strain crack toughness values of a structural steel 4400  
Static and dynamic low-temperature  $K_{Ic}$  behavior of steels 4900
- Shohet, K. N.**  
Roll bending methods of crown control in four-high plate mills 7890
- Shollenberger, C. A.**  
See Lissaman, P. B. S. 8928
- Shook, C. A.**  
Flow of suspensions in pipelines: Part 2, Two mechanisms of particle suspension 1520
- Shore, C. P.**  
Experimental investigation of flutter at Mach 3 of rotationally restrained panels and comparison with theory 8285
- Shorin, S. N.**  
See Balin, V. A. 5702  
Balin, V. A. 9836
- Shorr, B. F.**  
See Dulnev, R. A. 119
- Shpigelburd, I. Ya.**  
See Bazunov, E. P. 7898
- Shpunt, A. A.**  
See Fominykh, V. A. 8747
- Shraer, A. B.**  
A summarizing type of mechanism to accomplish a periodic (intermittent) motion 5430
- Shreiber, G. K.**  
Strain measurement in testing thermoplastics for creep 7942
- Shreve, W. E.**  
Boundary-value problems for  $y^a = f(x, y, \lambda)$  on  $(a, \infty)$  3269
- Shrivastava, J. P.**  
See Glockner, P. G. 3414
- Shrivastava, S. K.**  
See Modi, V. J. 4842
- Shrivastava, S. P.**  
Consolidation of partially saturated soil 4340
- Shteinberg, M. V.**  
See Prokopovich, I. E. 926
- Shtern, A. G.**  
See Tsinober, A. B. 9067
- Shtokman, V. B.**  
See Rzhaplinskiy, D. G. 5845
- Shtricker, J.**  
See Low, W. 2884
- Shtrikman, S.**  
Mossbauer spectroscopy with monochromatic circularly polarized radiation 3824
- Shubin, Yu. M.**  
See Ginevskii, A. S. 5572
- Shugam, R. A.**  
See Proshutinskii, A. P. 5486
- Shuiskaya, K. F.**  
See Timrot, D. L. 2202
- Shukhmin, Yu. A.**  
Accelerated methods for determining the fatigue limit of light alloys 2759
- Shukla, J.**  
A numerical experiment on a disturbance in the tropical easterlies 6715
- Shuleikin, V. V.**  
Soviet research on the theory of wind-driven waves 1544
- Shulgin, M. F.**  
See Kramarovskii, B. I. 9316
- Shulgin, V. V.**  
Stabilizing a jet-screen control system 7676

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Shulika, A. K.**  
See Mitkevich, V. M. 9398
- Shulkin, Yu. B.**  
Calculation of circular plates reinforced by radial ribs 7775
- Shull, R. D.**  
Transport of dissolved wastes in rivers 8034
- Shulman, Y.**  
See Knobloch, G. W. 1025
- Shulman, Z. P.**  
See Luikov, A. V. 386  
Luikov, A. V. 8018
- Shumanov, V. S.**  
See Chekalin, E. K. 3088
- Shumskii, V. F.**  
See Malkin, A. Ya. 6302
- Shur, E. A.**  
Method of determining "fatigue life" 8725
- Siess, C. P.**  
See Hatcher, D. S. 3598  
Jirsa, J. O. 4475  
Vanderbilt, M. D. 5390  
Gamble, W. L. 5391  
Gurfinkel, G. 5399
- Siev, A.**  
Prestressed suspended roofs bounded by main cables 365
- Siewert, C. E.**  
See Ozisik, M. N. 1344
- Sifner, O.**  
See Kmonicek, V. 2200
- Sigillito, V. G.**  
See Kuttler, J. R. 7346
- Signorelli, R. A.**  
See Jech, R. W. 7557
- Sih, G. C.**  
Wave propagation in an elastic solid with a line of discontinuity or finite crack 3480  
Normal-compression and radial shear waves scattering at a penny-shaped crack in an elastic solid 3487  
Torsional vibration of an elastic solid containing a penny-shaped crack 5205  
A class of wave diffraction problems involving geometrically-induced singularities 5260  
See also Hartranft, R. J. 5062  
Hartranft, R. J. 6842  
Ravera, R. J. 8660
- Sikarskie, D. L.**  
Periodic motions of a two-body system subjected to repetitive impact 8630  
See also Benjumea, R. 4371
- Silin, V. P.**  
See Kirii, A. Yu. 9874
- Siljak, D.**  
Parameter analysis of absolute stability 1657  
Absolute stability and parameter sensitivity 3318
- Sills, G. C.**  
See Gibson, R. E. 9327
- Sills, J. A.**  
A heat-transfer correlation for laminar separated flows 8906
- Silverio, A.**  
See Rocha, M. 4368
- Silverman, L. M.**  
Inversion of multivariable linear systems 4184  
See Haines, L. H. 5014
- Silverstein, C. C.**  
Permanent compression of a rigidly contained granular bed following impact with a rigid body 9488
- Silvester, P.**  
High-order polynomial triangular finite elements for potential problems 6773  
See also Cermak, I. A. 6777
- Silvester, R.**  
See Brothie, J. F. 5840
- Silvestrov, E. E.**  
See Bessonov, A. P. 5212
- Simakov, V. S.**  
The theory of torsion balances on moving bases 828
- Simitses, G. J.**  
Effect of load behavior on the buckling of thin spherical shells under pressure 181  
Buckling of eccentrically stiffened cylinders under combined loads 183  
Buckling of eccentrically stiffened, thin circular plates 5199  
See also Smith, C. V., Jr. 959
- Simmgen, M.**  
On the linearized theory of the hydrofoil in periodically unsteady flow 8124
- Simmons, G.**  
See Nur, A. 6160
- Simmons, H. B.**  
Use of models in resolving tidal problems 3206
- Simon, A.**  
Advances in plasma physics: Vol. 2; Vol. 3 5741  
Advances in plasma physics: Vol. 1 6561
- Simon, B. R.**  
See Kobayashi, A. S. 277
- Simon, F. F.**  
Thermocapillary induced breakdown of a falling liquid film 3862
- Simonov, V. A.**  
See Kotelnikov, Yu. N. 1449
- Simonson, E. R.**  
See DeVries, K. L. 4424
- Simonson, J. R.**  
An introduction to engineering heat transfer 2973
- Simpson, A. U.**  
Heat and mass transfer in dispersed, two-phase, single-component flow 4567
- Simpson, R.**  
See Finney, J. M. 6198
- Simpson, R. B.**  
The Rayleigh-Ritz process for the simplest problem in the calculus of variations 7630
- Simpson, R. L.**  
The turbulent boundary layer on a porous plate: Experimental skin friction with variable injection and suction 4612
- Shurchkova, Yu. A.**  
See Balitskiy, S. A. 2260
- Shurshalov, L. V.**  
On the problem of an intense explosion at the boundary of a half-space containing a perfect gas 9920
- Shutilov, V. A.**  
See Gitis, M. B. 4885
- Shutko, A. V.**  
Quasilinear theory of a two-beam instability 4808
- Shutt, A.**  
Incremental steady-state control equations for rod and bar mills 272
- Shuvalov, G. I.**  
See Olkhovskii, G. G. 9050
- Shvaiko, N. Yu.**  
On the theory of an anisotropic strain-hardening medium 136  
See also Leonov, M. Ya. 5110
- Shvarts, A. L.**  
Hydraulic characteristics and operational reliability of supercritical once-through boilers 3012
- Shvartsblat, D. D.**  
The spectrum of perturbations and convective instability of a plane, horizontal fluid layer with permeable boundaries 8201
- Shvedov, K. K.**  
See Kuznetsov, N. M. 9922
- Shvedova, N. M.**  
See Zaitsev, G. Z. 4409
- Shveiko, Yu. Yu.**  
Transverse vibrations of beams which have been joined by a cylindrical shell 196
- Shvets, A. I.**  
See Gonor, A. L. 5588
- Shvets, I. T.**  
The effectiveness of the simplest air cooling systems for fixed blades in land-based gas turbine plants 7359  
The effectiveness of heat protection by a flow with initially nonuniform temperature profile over a surface blowing air through a slit or a porous zone 9031
- Shvets, O. M.**  
Excitation of plasma waves near the lower hybrid resonance 9868
- Shvets, V. B.**  
Stability of shallow substructures under the conditions of deep seasonal freezing 7018
- Shyne, J. C.**  
See Lee, F. F. M. 6871  
Lee, F. F. M. 9360
- Shyu, W.-M.**  
Sound velocity in metals 3135
- Sichel, M.**  
Viscous transonic spiral and radial flow 3697

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Sickmann, J.  
On the dynamics of liquids in a cylindrical tank with a flexible bottom 3793
- Sicotte, R. L.  
RFI measurements at UHF on a pulsed plasma thruster 9883
- Sidebottom, O. M.  
See Schlafer, J. L. 5117
- Sidhu, G.  
See Hanagud, S. 6117
- Sidik, S. M.  
RAPIER—a FORTRAN IV program for multiple linear regression analysis providing internally evaluated remodeling 4162
- Sidnev, V. I.  
Method of approximately constructing strain diagrams in a nonuniformly stressed state 1108  
Method of investigating energy dissipation in metals with repetitive impact loading 4443  
Number of cycles to failure under impact loading 8724
- Sidorenko, I. S.  
See Makhankov, V. I. 3847
- Sidorov, A. F.  
Some three-dimensional gas flows adjacent to regions of rest 2875  
Three dimensional running waves in a barotropic gas 8075  
See also Ermolin, E. V. 3711
- Sidorov, V. S.  
See Kumskov, V. T. 5641
- Sidwell, E. H.  
See Johnston, C. D. 3576  
Johnston, C. D. 5360
- Siederkersting, H.  
See Euteneuer, G. -A. 426
- Siegel, R.  
Analysis by conformal mapping of steady frozen-layer configuration inside cold rectangular channels containing warm flowing liquids 3004  
Analytical method for steady state heat transfer in two-dimensional porous media 8350  
See also Goldstein, M. E. 7440
- Siekman, J.  
See Bauer, H. F. 9736
- Sierakowski, R. L.  
The effect of repeated loading on the yield surface 3375
- Sims, J. B.  
See Rideout, V. C. 4125
- Sims Williams, J. H.  
See Baldwin, J. F. 7689
- Sinagra, C.  
See Leone, M. 9755
- Sinclair, G. M.  
See Gallagher, J. P. 7915
- Sinclair, G. R.  
See Kennedy, J. B. 2034
- Sines, G.  
See McKee, R. B., Jr. 6206
- Sinev, A. V.  
See Prokofev, V. N. 6449
- Singal, S. P.  
Acoustic transients generated by antiferroelectric-ferroelectric transducers 4025
- Singer, R. M.  
See Holtz, R. E. 5685
- Singh, A.  
Transition from circular to rectangular section 394  
See also Gupta, K. C. 3071  
Mitchell, J. K. 4337
- Singh, B.  
See Srimathi, C. R. 3168  
Kumar, R. 4373
- Singh, C.  
See Jain, O. P. 4485
- Singh, D. V.  
Effect of additives in lubricants on friction and wear between metal pairs 6722
- Singh, H.  
Vibration of a spherical cavity in an elastic dielectric 5209
- Singh, K.  
Liquid-film flow rates in two-phase flow of steam and water at 1000 lb/sq in. abs 4569  
See also Srivastava, K. N. 100
- Singh, K. P.  
Theoretical baseflow curves 9630
- Singh, M. P.  
Oscillation of a sphere in a compressible viscous fluid in a slip regime 2161
- Singh, S. J.  
Decoupling of the vector wave equation of elasticity for radially heterogeneous media 4333  
Asymptotic theory of body waves in a radially heterogeneous Earth 6693
- Singh, S. N.  
Laminar free convection from a horizontal infinite strip facing downwards 2987  
Hydromagnetic free convection from a horizontal infinite strip facing downward 6557
- Singh, S. P.  
A note on k-transforms 8430
- Singh, S. S.  
Boundary layer along the initial length of a flat plate at zero incidence with homogeneous suction 5537
- Singh, V.  
Wells and caissons 9509
- Singh, W.  
See Chaudhry, H. R. 108
- Singhal, A. C.  
Nonlinear dynamic response of bonded and unbonded rings under high intensity blasts 8778
- Singhota, J. S.  
Mathematical solution 7882
- Sinha, D. K.  
A note on disturbances in a piezoelectric slab 5282  
Deformations of an inhomogeneous piezoelectric thick disk 7715  
See also Dasgupta, C. K. 3066
- Sinha, N. K.  
Propagation of shock waves in a polytrope with a poloidal magnetic field 4796
- Sinha, P. C.  
Forced convection flow past a flat plate with variable viscosity and thermal conductivity 4729
- Sinyavskii, D. P.  
See Strizhalo, V. A. 4440
- Sirazetdinov, T. K.  
See Baloev, A. A. 7331
- Sircar, R.  
On the stresses due to a concentrated couple acting at any point of an elliptic plate with fixed edge 924  
Bending of a rectangular plate resting on elastic foundation under simultaneous action of lateral load and force in the middle plane of the plate 2631
- Sirenko, V. A.  
See Byalyi, B. I. 8390
- Sireteanu, T.  
See Dinca, F. 8636
- Sirignano, W. A.  
See Mitchell, C. E. 3909
- Sirovich, L.  
Steady gasdynamic flows 431  
See also Hanson, F. B. 6642
- Sisak, E.  
See Anton, I. 2176
- Siscoe, G. L.  
On the cause of geomagnetic bays 8371
- Sisemore, C. J.  
Project Sterling: Subsurface phenomenology measurements near a decoupled nuclear event 9124
- Sisler, M.  
On a relaxation method 4160
- Sislyan, Zh. S.  
Linearized unsteady nonequilibrium flows of a compressible gas 1222
- Sisto, F.  
Linearized theory of nonstationary cascades at fully stalled or supercavitated conditions 3798
- Sitharamayya, S.  
Heat transfer between an axisymmetric jet and a plate held normal to the flow 9796
- Sitnik, G. F.  
The use of O<sub>2</sub> molecular lines in studying physical conditions in the Earth's atmosphere 1552
- Sitt, B.  
See Rager, J. -P. 1438
- Siu, C. C.  
Free vibrational analysis of sandwich conical shells with free edges 9449
- Sivan, R.  
On the existence of optimal solutions for the linear system quadratic cost problem 5921  
See also Yavin, Y. 5049

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Sivasegaram, S.  
Film cooling slots: The importance of lip thickness and injection angle 3898
- Siwoff, F.  
On the development of a universal logic system of fluidic elements 57
- Sizonenko, V. L.  
Plasma instability in the electric field of an ionocyclotron wave 2305
- Sizov, A. A.  
See Yefimov, V. V. 9977
- Sizova, R. N.  
See Dulnev, R. A. 119
- Sjolin, T.  
See Johansson, C. H. 4010
- Skalak, R.  
See Wang, H. 5476
- Skaloud, M.  
Post-critical behavior of a stiffened square plate subjected to uniform shear: Part I, General solution and buckled pattern of the plate 7791  
See also Rockey, K. 1802  
Massonnet, C. 3435  
Rockey, K. 4486  
Massonnet, C. 6074
- Skalskaia, I. P.  
See Lebedev, N. N. 3296
- Skeer, M. H.  
Dynamic response of systems subject to moving mass excitations 2803
- Skelly, J. F.  
See Osman, M. A. 8242
- Skelton, C. R.  
See Shutt, A. 272
- Skelton, J.  
A theoretical and experimental investigation of the crease recovery of plain-weave fabrics woven from staple yarns 123
- Skelton, R. C.  
Turning with an oscillating tool 7053
- Skews, B. W.  
Studies of shock wave interactions 4687
- Skiba, G. G.  
See Antonova, A. M. 6347
- Skingle, C. W.  
See Taylor, G. A. 2693
- Skinner, V. R.  
Gas mixing in rod clusters 4724
- Skobeev, A. M.  
On plastic shear wave 1040
- Skoczowski, St.  
See Zuchowski, A. 6813
- Skopek, J.  
The variability of results obtained by testing index properties of soils 2747
- Skorodumov, B. A.  
See Davydov, B. L. 2817
- Skorupski, A.  
See Infeld, E. 2310
- Skoze, M. J.  
See Powell, B. E. 6824  
Stillwell, E. P. 8335
- Skovorodkin, Yu. P.  
See Barsukov, O. M. 7879
- Skriabin, N. N.  
A dynamic system with a discontinuous characteristic 5011
- Skripnichenko, S. Yu.  
Determination of optimal redistribution of lifting surface between wing and integral pitch control unit 6409
- Skrzypek, J.  
On the limit carrying capacity of a pipeline cross section 129  
Non-symmetrical plastic collapse modes of a symmetrically loaded circular cylinder 3380
- Skudra, A. M.  
Deformation of reinforced-plastic beams with allowance for the time factor 2621  
See also Antans, V. P. 122
- Skudrzyk, E. J.  
See Haddle, G. P. 1475
- Skuratovskii, V. N.  
See Pisarenko, G. S. 695
- Skurin, L. I.  
See Ginzburg, I. P. 1418  
Ginzburg, I. P. 5735
- Skvara, F.  
See Satava, V. 9150
- Skvinskii, I. N.  
See Olkhovskii, G. G. 9050
- Skvortsov, V. V.  
Some results on disturbances introduced by extraneous bodies into a stream of rarefied plasma 2114  
The structure of the trail behind a spherical model in a stream of rarefied plasma 4828
- Slattenschek, A.  
Response of automobile windshields to impact by a model head 1967
- Slattery, J. C.  
See Flumerfelt, R. W. 4727
- Slavchev, S. G.  
Stability of a laminar boundary layer of incompressible fluid above an elastic surface 8105
- Slaven, P. W.  
See Ruddlesden, F. 1299
- Slavenas, Yu. Yu.  
See Milashauskas, A. P. 285  
Kagan, V. A. 4438  
Kagan, V. A. 6231
- Slavina, N. P.  
See Dmitriev, V. N. 5368
- Slavskii, Yu. I.  
See Drozd, M. S. 3577  
Drozd, M. S. 7946
- Slaybaugh, J. C.  
See Burton, R. L. 9752
- Slechts, J.  
Some problems of gas radiation 4744
- Sleeper, R. K.  
A stability study and modal analysis of space-station-centrifuge configuration 6968
- Slegers, L.  
Nusselt condensation of n-butyl alcohol 559
- Sleicher, C. A.  
See Achutaramayya, G. 4542  
Hill, J. C. 9703
- Slepicka, F.  
Influence of the boundary layer on the motion of the reflected shock-wave 7248  
See also Kmonicek, V. 2200
- Slezinger, I. N.  
See Prokopovich, I. E. 926
- Sliva, O. K.  
Investigation of the oscillations of turbine blades on the basis of the applied theory of twisted rods of elongated profile 5226  
See also Bogomolov, S. I. 9445
- Sloboda, F.  
Dynamic optimization at incomplete information 2534
- Slobodkin, S. I.  
Vibrations in a rotor-casing system 6948
- Slobodkina, F. A.  
Qualitative investigation of the quasi-one-dimensional magnetohydrodynamic flow equations in channels 5734  
Stability of quasi-one-dimensional magnetohydrodynamic flows 6547
- Slobozhanin, L. A.  
Hydrostatics in weak force fields: Ring-shaped figures of equilibrium of a rotating liquid and their stability 7190  
Hydrostatics in weak force fields: Equilibrium shapes of rotating liquid surface at zero-G 7342
- Slomianko, P.  
On certain structural peculiarities of rubble movement at sandy shores 2848
- Slonimskii, G. L.  
See Pavlov, V. I. 120
- Slonovskii, N. V.  
On thermoelastic stability with sliding friction 5813
- Sloss, D. A.  
See Baker, W. J. 1057
- Slot, T.  
A note on stress concentration factors for symmetric U-shaped notches in tension strips 5072  
See also Mowbray, D. F. 4437
- Sluyter, W. M.  
See van Stralen, S. J. D. 2279
- Slyper, H. A.  
Development of explicit stiffness and mass matrices for a triangular plate element 990  
See also Duggan, A. P. 4289
- Small, D. A.  
See Moses, H. L. 5030
- Smaryshev, M. D.  
Determination of the gain and single-element radiation impedance of a large plane periodic array 2369

- Smaryshev, M. D.** (*Continued*)  
 Radiation impedance and gain of extended periodic linear arrays 4012  
 Near field of an infinite plane periodic array 5801
- Smeets, G.**  
 Streak-interferometric studies of head wave standoff in a shock tunnel 4690
- Smenkovskaya, P. T.**  
*See Babukha, G. L.* 2074
- Smertyak, Yu. L.**  
 Apparatus for determining the wear of samples by an impression method: Exchange of experience 4975
- Smetanin, B. I.**  
 Problem of extension of an elastic space containing a plane annular slit 6845
- Smetanin, B. P.**  
 On a mixed problem of elasticity theory for a wedge 5977
- Smirnov, A. I.**  
 Natural oscillations and flutter for cylindrical sandwich shells in a supersonic gas flow 5760  
 Supersonic flutter of sandwich plates 6596
- Smirnov, A. S.**  
*See Diner, I. Ya.* 7686
- Smirnov, A. V.**  
*See Dmitriev, V. N.* 5368
- Smirnov, B. P.**  
*See Yurchak, R. P.* 2968
- Smirnov, E. Ya.**  
 Stabilization of the null solution of a system of linear differential equations 2508  
 Design of stable linear control systems 5009
- Smirnov, I. G.**  
*See Korolev, V. I.* 970
- Smirnov, M. S.**  
 On nonlinear problems of heat and mass transfer 1388  
 A nonlinear time-independent system of differential equations of heat and mass transfer 4756
- Smirnov, Yu. I.**  
*See Rybnikov, S. I.* 5028
- Smirnova, V. V.**  
 Amplification of electric-field fluctuations close to a body in plasma 6568
- Smitsaert, G. E.**  
 Static and dynamic hydroelastic instabilities in MTR-type fuel elements: Part I, Introduction and experimental investigation 6719
- Smith, A. M. O.**  
 Solution of the boundary-layer equations for incompressible turbulent flow 2895  
*See also Cebeci, T.* 8097  
*Bauer, A. B.* 8900
- Smith, B. S.**  
*See Stamato, M. C.* 3619
- Smith, C. C., Jr.**  
*See Fink, M. P.* 9708
- Smith, C. D.**  
 Triangular broad-crested weir 7376
- Smith, C. L.**  
*See Moore, C. F.* 7667
- Smith, C. V., Jr.**  
 Effect of shear and load behavior on ring stability 959
- Smith, C. W.**  
 Ultrasonic radiation field of a focusing spherical source at finite amplitudes 6646  
*See also Kaiser, H.* 8016
- Smith, D.**  
*See Weston, D. E.* 4027
- Smith, D. M.**  
 Journal bearings in turbomachinery 8392
- Smith, E.**  
 Planar distributions of dislocations: Part II, Arrays of superlattice and partial dislocations 8541  
*See also Rosenfield, A. R.* 6018
- Smith, F. A., Jr.**  
 Torsion analysis of heavy box beams in structures 6875
- Smith, F. W.**  
 Monte Carlo evaluation of methods for pulse transfer function estimation 801
- Smith, G. J.**  
*See Thew, M. T.* 1169
- Smith, G. V. F.**  
*See Goldsmith, E. L.* 9669
- Smith, G. W.**  
 Internal stress distribution theory of magnetomechanical hysteresis: An extension to include effects of magnetic field and applied stress 4314
- Smith, I. M.**  
 A finite element analysis for "moderately thick" rectangular plates in bending 951
- Smith, J. H.**  
 The application of a digital computer to mechanical testing 4461
- Smith, J. H. B.**  
 Pressure measurements on a slender rhombic cone at incidence at Mach numbers from 0.4 to 1.1 8923
- Smith, J. L.**  
 Fracture data and stress-strain behavior of rocks in triaxial compression 1900
- Smith, J. L., Jr.**  
*See Bowman, H. F.* 1358  
*Qvale, E. B.* 9830
- Smith, J. M.**  
*See Peters, D. C.* 1187
- Smith, J. O.**  
*See Smith, F. A., Jr.* 6875
- Smith, K. V. H.**  
 Similarity in unlined irrigation canal systems 6309  
*See also Chaudhry, H. M.* 8033
- Smith, P. D.**  
 Approximate solutions of the three-dimensional laminar boundary-layer momentum integral equations 2122
- Smith, P. J.**  
 Efficiency of circular fins of triangular profile 1316  
*See also Zuk, J.* 9652
- Smith, R. A.**  
 Infinite product expansions for matrix  $n$ -th roots 2
- Smith, R. E.**  
 Guide for depth of foundation exploration 8678  
*See also Reese, L. C.* 8679
- Smith, R. G.**  
 Evaluation of the stress-strain curve of concrete in flexure using method of least squares 9581
- Smith, R. K.**  
 On the effects of vorticity entrainment in zonal jet flows 9976
- Smith, S.**  
*See Brogan, F.* 995
- Smith, S. H.**  
 On initial value problems for the flow in a thin sheet of viscous liquid 2070  
 On the creation of surface waves by viscous forces 6430
- Smith, S. W.**  
 Transient and residual strains from large underground explosions 7865
- Smith, W. E.**  
 Comparison of ship-motion theory and experiment for destroyer with large bulb 9191
- Smith, W. S.**  
 Temperature, pressure, density, and wind measurements in the stratosphere and mesosphere, 1967 7581
- Smolenski, C. P.**  
 Optimal multifactor design procedure for sandwich panels 8572
- Smolitskii, Kh. L.**  
 On the motion of a gyroscope in a Cardan suspension 6820
- Smolkin, G. E.**  
*See Babykin, M. V.* 9060
- Smoller, J. A.**  
 Global solutions for an extended class of hyperbolic systems of conservation laws 3276
- Smolskii, B. M.**  
*See Elperin, I. T.* 6308
- Smolskiy, B. M.**  
*See Sadovnikov, G. V.* 2283
- Smolyakov, E. R.**  
 Optimization of the entry corridor into the atmosphere 2349
- Smuda, P. A.**  
*See Fletcher, L. S.* 7411
- Smushkovich, B. L.**  
*See Zoteev, V. S.* 1908
- Smutek, R.**  
*See Kafkova, D.* 8340
- Smy, P. R.**  
*See Mikoshiba, S.* 3948
- Snaith, M. S.**  
*See Kirwan, R. W.* 8668

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Sneddon, I. N.**  
Dual series relations: Part 1, Dual relations involving Fourier-Bessel series 769  
The distribution of surface stress necessary to produce a Griffith crack of prescribed shape 1713  
Crack problems in the classical theory of elasticity 2748  
*See also* Olesiak, Z. 1712  
Rooke, D. P. 4394
- Snigirev, Yu. I.**  
*See* Neiland, V. Ya. 3996
- Snitko, N. K.**  
Ustoichivost sterzhnevnykh sistem v uprugo-plasticheskoi oblasti (Stability of bars and frames in the elastoplastic region) 974  
Forced vibrations of a rigid wall in the soil acted on by a periodic force 8617
- Snodgrass, F. E.**  
*See* Caldwell, D. R. 4930
- Snopov, A. I.**  
Calculating a gas self-generating bearing of finite length 8393
- Snow, C. C.**  
*See* Snyder, R. G. 3241
- Snow, D. T.**  
Rock fracture spacings, openings, and porosities 7880  
The frequency and apertures of fractures in rock 7881
- Snow, R. B.**  
Factors affecting lining life in blast furnaces 7465
- Snowdon, J. C.**  
Forced vibration of internally damped circular plates with supported and free boundaries 9441
- Snowdown, J. C.**  
Reduction of the longitudinal vibration of internally damped rods having finite termination impedance 5240
- Snyder, H. A.**  
Wave-number selection at finite amplitude in rotating Couette flow 1192  
Rotating cylinder viscometer 2183  
Change in wave-form and mean flow associated with wavelength variations in rotating Couette flow: Part 1 4576
- Snyder, N. W.**  
Mass-transfer model in subcooled nucleate boiling 5682
- Snyder, R. G.**  
Experimental impact protection with advanced automotive restraint systems: Preliminary primate tests with air bag and inertia reel/inverted-Y yoke torso harness 3241
- Snyder, R. W.**  
*See* Turney, G. E. 515
- Snyders, L. S.**  
*See* Pih, H. 1101
- Soare, M.**  
Aplicarea ecuatiilor cu diferente finite la calculul placilor curbe subtiri, Edita a II-a (Application of finite difference equations to shell analysis, 2nd edition) 6897
- Sobel, L. H.**  
*See* Almroth, B. O. 9415
- Sobey, A. J.**  
Stress concentration factors for reinforced rounded-square holes in sheets 104
- Sobieszczanski, J.**  
Matrix algorithm for structural modification based upon the parallel element concept 4466
- Sobolenko, T. M.**  
Shock compression of low-carbon steels 5280
- Sobolev, N. D.**  
Thermal fatigue testing methods: Review 9148
- Sobolev, V. L.**  
Experimental estimation of the accuracy of certain types of accelerated fatigue tests 3551
- Sobolev, V. M.**  
Effectiveness of conical track wheels in bridge cranes 7985
- Sobotka, Z.**  
The quadratic yield condition for elasto-viscoplastic materials 5109  
Yield condition of the constant limiting distortion energy for anisotropic bodies 5114  
Vibrations of rectangular orthotropic viscoelastic plates 6086  
Plastic load-carrying capacity of continuous skew plates 7756
- Sockel, H.**  
Airfoil profiles in plane shear flow 3764
- Soechting, J. F.**  
A bounding principle in the theory of work-hardening plasticity 882
- Soedel, W.**  
*See* Jacquot, R. G. 9433
- Soga, N.**  
*See* Jimbo, G. 742
- Sogame, E.**  
*See* Liu, J. T. C. 4741
- Sohn, H. Y.**  
The effect of particle size distribution on packing density 2403
- Sohsa, K.**  
*See* Negishi, K. 9818
- Soifer, M. T.**  
*See* Kerr, A. D. 6915
- Sokhin, V. A.**  
*See* Kanakov, G. V. 5306
- Sokolik, A. S.**  
Macrokinetic characteristics of turbulent flames: Kinetic justification of the model of "pulsatory ignition" 3904  
Turbulent combustion of gases 7460
- Sokolov, E. Ya.**  
Procedure for calculation of the central control system of an open-closed heat supply system 5691
- Sokolov, I. N.**  
An experimental reactor vessel and some results of its power-generating start 1416
- Sokolov, L. D.**  
*See* Ishutkin, S. I. 6233
- Sokolov, M.**  
*See* Hetsroni, G. 1181
- Sokolov, P. S.**  
*See* Gafarov, F. Kh. 8751
- Sokolov, V. B.**  
Applications of the generalized-parameter method for the study of flight maneuvers in a uniform gravitational field 8292
- Sokolova, L. E.**  
Asymptotic stability of the equilibria of gyroscopic systems with partial dissipation 78
- Sokolovskii, G. A.**  
Constructing transonic reaction profiles for turbomachine blades 3796
- Sokolowski, M.**  
*See* Dusza, A. 94  
Matczynski, M. 7705
- Sokovishin, Yu. A.**  
*See* Kitanin, E. L. 5738
- Soldan, J.**  
*See* Preucil, M. 8455
- Soler, A. I.**  
Vibrations and stability of a moving band 2687  
Higher-order theories for structural analysis using Legendre polynomial expansions 4212
- Soliman, J. I.**  
Active isolation systems using a nozzle-flapper valve 2703  
Servo-controlled pneumatic isolation systems 6978  
Vibration isolation between non-rigid machines and non-rigid foundations 6980  
Absolute stability of a class of nonlinear sampled-data systems 9278
- Solloway, C. B.**  
*See* Lass, H. 3983
- Solnoky, P.**  
Free flight simulation from Mach 1 to Mach 30 in the hypersonic range 5625
- Solntsev, S. S.**  
Analysis of cracks and fracture structure in glass 2752  
Machine for mechanical testing of brittle materials in the temperature range of 20-1200°C 4454
- Solodkin, J. N.**  
*See* Kozacok, A. G. 7080
- Sologub, N. A.**  
*See* Smertyak, Yu. L. 4975
- Solomin, V. I.**  
Computation of rectangular plates on elastic layer of limited thickness 2629
- Solomin, V. V.**  
New method of choice of rational structural schemes of mechanisms 3634

- Solomon, A. A.  
New techniques and apparatus for  
examining the elevated tempera-  
ture deformation of metals 2396
- Solonin, S. V.  
On the determination of the in-  
tensity of bumping of aircraft in  
the stratosphere in the case of a  
supersonic flight velocity 3774
- Soloukhin, R. I.  
Quasi-stationary reaction zone in  
gaseous detonation 2287  
See also Nesterikhin, Yu. E. 616  
Lee, J. H. 9837
- Solovev, A. N.  
See Kaplun, A. B. 8983
- Solovev, A. S.  
See Aleksandrov, V. M. 5985
- Solovev, V. P.  
Optimum spin of a space vehicle  
around an arbitrary fixed axis 6615
- Solovev, Yu. I.  
Provision of linearity in the law of  
distribution of critical pressures  
on a foundation bed 7024
- Soloveva, E. N.  
See Budak, B. M. 8480
- Soltis, R. F.  
Overall performance of a tandem-  
bladed inducer tested in water 3804  
Blade-element performance of a  
tandem-bladed inducer tested in  
water 9743
- Soltynski, A.  
Physical similarity and scale effects  
in soil-machine systems 3514
- Soluyan, S. I.  
See Rudenko, O. V. 9931
- Som, M. M.  
Cylindrically symmetric charged  
dust distributions in rigid rotation  
in general relativity 4204
- Som, P. K.  
Anchor zone stress analysis by finite  
element method 7956
- Somashekar, B. R.  
See Kariappa 619
- Somekh, S.  
See Shtrikman, S. 3824
- Somerscales, E. F. C.  
Thermal convection in high Prandtl  
number liquids at high Rayleigh  
numbers 6490
- Somerset, J. H.  
See Schenck, T. 4123
- Someswara Rao, S.  
Laminar forced convection in el-  
liptic ducts 7412
- Sommers, R. D.  
Radiation view factors for a toroid:  
Comparison of Eckert's technique  
and direct computation 7432
- Sommerville, W.  
See Basu, A. K. 7965
- Somogyi, D.  
See Oden, J. T. 8044
- Sone, Y.  
Asymptotic behavior of diffusion of  
tangential velocity discontinuity in  
rarefied gas 2115
- Song, C. S.  
See Mozayeny, B. 8140
- Soni, A. H.  
Existence criteria of mechanisms 8004
- Soo, S. L.  
Pipe flow of suspensions 6320  
Fluid dynamics of multiphase sys-  
tems 8045
- Sood, N. S.  
Some correlations for resistances to  
heat and momentum transfer in the  
viscous sublayer at rough walls 8119
- Sooky, A. A.  
Longitudinal dispersion in open  
channels 8845
- Soong, T. T.  
See Bliven, D. O. 2680
- Soos, E.  
Reciprocity theorems for elastic and  
thermoelastic materials with micro-  
structure 673  
Uniqueness theorems for homoge-  
neous, isotropic, simple elastic and  
thermoelastic materials having a  
microstructure 834  
Constitutive equations for homoge-  
neous isotropic materials having a  
microstructure and memory 5094
- Sorensen, A., Jr.  
A general theory of fatigue damage  
accumulation 3546
- Sorensen, K. E.  
See Davis, C. V. 8025
- Sorensen, V. L.  
See Hopkins, E. J. 7305
- Sorenson, H. W.  
Nonlinear filtering by approxima-  
tion of the a-posteriori density 51
- Sorger, P.  
See Kirchgassner, K. 5490
- Sorochan, E. A.  
See Krutov, V. I. 6125
- Sorokin, V. V.  
An approximate method for the in-  
vestigation of large bending and  
load carrying capacity of elasto-  
plastic shells 6912
- Sorokin, Yu. L.  
See Pushkina, O. L. 8217
- Sorokopud, L. M.  
See Mitor, V. V. 9829
- Sorrells, R. B., III  
Drag reduction due to gas injection  
through various discrete slots on a  
three-dimensional wing at Mach  
2.01 2924
- Soshnikov, V. N.  
A relative motion model to describe  
cable-aided cosmonaut-vehicle ap-  
proach 8305
- Sosnovskii, L. A.  
Determination of large strains by  
the photoelastic coating technique 5350
- Soudack, A. C.  
See Anderson, R. A. 6762  
Barkham, P. G. D. 8415
- Soulie, M.  
See Windisch, S. J. 9505
- Soulsby, R.  
See Thorpe, S. A. 4728
- Soundalgeker, V. M.  
On generalized MHD Couette flow  
in slip-flow regime 3058
- Soussou, J. E.  
See Gradowczyk, M. H. 7720
- South, J. C., Jr.  
New features of the method of in-  
tegral relations for the blunt body  
problem 2096
- Sovetov, B. Ya.  
System for remote monitoring of  
the state of feeder substations over  
radio lines 2540
- Sovrano, R.  
Contribution to the study of super-  
sonic compressors: Configurations  
of waves obtained by hydraulic  
analogy 4671
- Sowa, A.  
See Murzewski, J. 1987
- Soward, A. M.  
Steady free convection above a point  
heat source and a horizontal line  
heat source in a vertical magnetic  
field 9802
- Sowden, R. R.  
Computation of the bi-variate  
normal integral 7646
- Sowers, H.  
See Tabakoff, W. 7477
- Sowers, J. D.  
Forced response of lumped-param-  
eter system with applications to  
missile dynamics 1003
- Sox, J. L.  
Some orthogonal functions which  
are linear combinations of square-  
wave functions 4137
- Sozen, M. A.  
Structural behavior of a small-scale  
prestressed concrete reactor vessel 358  
Strength and cracking characteris-  
tics of beams with #14 and #18  
bars spliced with mechanical  
splices 7964  
See also Hatcher, D. S. 3598  
Jirsa, J. O. 4475  
Vanderbilt, M. D. 5390  
Gamble, W. L. 5391
- Sozou, C.  
Symmetrical normal modes in a  
Rankine vortex 2871
- Spadaccini, L. J.  
Combustion of an ablative fuel in a  
constant-area channel 4766
- Spaethe, G.  
Theory for series of elastic beams 5136
- Spaid, F. W.  
The drag of small protuberances im-  
mersed in a turbulent boundary  
layer 2925

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Spalding, D. B.  
A theory of the turbulent boundary layer 3730
- Spalvins, T.  
See Przybyszewski, J. S. 4093
- Spar, J.  
Aircraft reconnaissance of winter coastal cyclones in the north-eastern United States 4949
- Sparenberg, J. A.  
An upper bound for the efficiency of lightly loaded ship propellers  
On optimum propellers with a duct of finite length 2951  
5615
- Sparks, J. W.  
See Tesar, D. 2827
- Sparrow, E. M.  
Longitudinal vortices in natural convection flow on inclined plates 2236  
Radiation incident on a temperature sensor situated in a tube having nonisothermal walls 2248  
Free convection from a plane vertical surface with a nonhorizontal leading edge 3864  
Binary, gravity-flow film condensation 4748  
Free molecule flow through slit and annular orifices in the presence of participating bounding walls 7275  
Observations and other characteristics of thermals 9807  
See also Minkowycz, W. J. 1372  
Chen, T. S. 3017  
Beavers, G. S. 4051  
Kinney, R. B. 6513  
Fleming, D. P. 7171
- Spath, H.  
Exponential spline-interpolation 9262
- Speechley, J.  
A review of engineering developments in helicopter design 6599
- Speedy, C. B.  
An experiment in the optimal control of a steam generating plant 73
- Spence, D. A.  
See Ockendon, H. 7243
- Spence, J.  
Stationary creep deformation of a smooth pipe bend under in-plane bending moments 2591
- Spencer, A. J. M.  
See Mulhern, J. F. 3378  
Kydonieffs, A. D. 3415
- Spencer, G. C.  
An introduction to plasticity 125
- Spencer, G. K.  
See Moore, P. J. 1894
- Spencer, R. C.  
Theoretical steam rate tables—compatible with the 1967 ASME steam tables 5631
- Spencer, W. J.  
See Lee, P. C. Y. 4313
- Spera, D. A.  
Calculation of thermal-fatigue life based on accumulated creep damage 1512
- Sperling, H. J.  
The expansion of the potential of a homogeneous ellipsoid in a series of tesseral harmonics 827
- Spetla, Z.  
See Kadlecsek, V. 3574
- Spielrein, R. E.  
Some modern prosthetic and orthotic trends and developments seen as a challenge to the engineering profession 3258
- Spiers, R.  
Traction of friction-grip bolted joints 3650
- Spillane, K. T.  
See Brook, R. R. 1549
- Spillers, W. R.  
On the analysis of structural design  
Impact of two elastic cylinders: Short-time solution 331  
Problems in all-paper construction: A pilot study 6989  
8764
- Spinelli, R. A.  
On the O.D.E. of stagnation point flows of power law fluids 2830
- Spintzyk, J.  
Systems engineering methods in aircraft development 2334
- Spiridonov, G. A.  
See Vukalovich, M. P. 4709
- Spisz, E. W.  
See Jack, J. R. 5672
- Spitzer, C. R.  
See Wilson, R. G. 9027
- Spitzer, F.  
Uniform motion with elastic collision of an infinite particle system 5967
- Spong, E. D.  
See Howell, R. H. 7256
- Sprague, C. H.  
The use of piecewise continuous expansions in the identification of nonlinear systems 9275
- Spreiter, J. R.  
See Morioka, S. 596
- Spriggs, J. H.  
Membrane flutter paradox: An explanation by singular-perturbation methods 3973
- Springer, G. S.  
See Sampson, R. E. 2278
- Springer, H.  
See Fasol, K. H. 5925
- Sprishevskaya, I. A.  
Two problems of determining the temperature field in a cyclically deformed medium 3155
- Sproat, W. H.  
AGIS—an acoustographic imaging system 7949
- Spuida, C.  
See Schwieger, H. 8665
- Spulber, I.  
Influence of the variation of viscosity on the gas flow through porous media 708
- Spurk, J. H.  
Experimental and numerical non-equilibrium flow studies 1220
- Spurr, R. T.  
Boundary lubrication of metals 9201
- Spyridonos, A.  
See Koumoutsos, N. 9820
- Squier, L. R.  
Load transfer in earth and rockfill dams 9513
- Squire, L. C.  
A law of the wall for compressible turbulent boundary layers with air injection 458
- Sra, K. S.  
See Narasimhan, M. N. L. 9344
- Sreedhar, N.  
Stability of linear time-varying systems 1658
- Sreenivasan, K.  
Transient temperature response of cylindrical, composite energy storage devices 8988
- Sreenivasulu, P.  
Linear proportional weirs 8828
- Srichand, M.  
Studies of the viscosity of mixtures of R12 and R22 vapors 8167
- Sridhar, K.  
Experimental investigation of curvature effects on turbulent wall jets 9697
- Sridharan, K.  
See Lakshmana Rao, N. S. 7172
- Sridhar Rao, J. K.  
See Paramasivam, P. 2658  
Paramasivam, P. 6085
- Srimathi, C. R.  
Transient-state theory of centrifuges 3168
- Srinath, L. S.  
Analysis of scattered-light methods in photoelasticity 3559  
On the interferometric method of stress analysis 7927
- Srinivas, R. A.  
Self-excited vibrating diffusion flames 6523
- Srinivasan, A. V.  
Gyroscopic systems as vibration absorbers 6097
- Srinivasan, P.  
Determination of resonant frequencies and mode shapes of vibrating plates by the use of solid CO<sub>2</sub> exciter 4299  
Studies on the vibration of an elevated water tank 6961  
Design and construction of dashpots 6975  
Design of multi-reed type shock gage 7842  
See also Bapat, V. A. 1822  
Dasarathy, B. V. 3475  
Dasarathy, B. V. 4175  
Bapat, V. A. 4285  
Bapat, V. A. 4286  
Bapat, V. A. 4317  
Dasarathy, B. V. 7618  
Bapat, V. A. 9428
- Srinivasan, P. S.  
Pressure drop and heat transfer in coils 6507

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Srinivasan, R. J.  
See Reddy, A. S. 8670
- Srinivasan, S.  
See Tien, C. 1374  
Durvasula, S. 3452
- Srinivasan, S. K.  
Unsteady motion of a viscous fluid subjected to random pulses 8875
- Srinivasan, T. P.  
Invariant elastic constants for crystals 5077  
Elastic waves in tetragonal and hexagonal crystals 9485
- Srinivasan, V. S.  
See Hill, H. M. 5463
- Srinivasa Rao, B.  
Axisymmetric deformation of a circular cylinder of piezoelectric cadmium selenide crystal 2565
- Srivastav, R. P.  
Dual series relations: Part 2, Dual relations involving Dini series 770  
Dual series relations: Part 3, Dual relations involving trigonometric series 771  
Dual series relations: Part 4, Dual relations involving series of Jacobi polynomials 772  
On the use of Fourier transforms for the solution of two-dimensional problems of elastostatics 8504  
See also Sneddon, I. N. 769
- Srivastava, K. M.  
See Bajwa, G. S. 3934
- Srivastava, K. N.  
The effect of penny-shaped crack on the distribution of stress in a semi-infinite solid 100  
The distribution of thermal stress in a semi-infinite elastic solid containing a penny-shaped crack 3149
- Srivastava, R. C.  
See Sekhon, R. S. 9987
- Srivastava, U. N.  
On the existence of the solution of a certain boundary-layer equation 2119
- Srivatsavan, R.  
See Srinivasan, P. 7842
- Srubshchik, L. S.  
Nonstiffness of a nonshallow spherical dome 161  
On solvability of nonlinear equations of Reissner for nonshallow symmetrically loaded shells of revolution 176  
On the buckling of flexible plates 2659  
Asymptotic properties of Reissner equations in the nonlinear theory of symmetrically loaded shells of revolution 5181
- Ssorin-Tchaikov, V. N.  
See Rutkovsky, V. Yu. 822
- Stachel, J.  
See Havas, P. 8500
- Stachiewicz, J. W.  
Effect of variation of local film coefficients on fin performance 3003  
See also Rouhiainen, P. O. 6667
- Stachiw, J. D.  
Critical pressure of spherical shell acrylic windows under short-term pressure loading 2766  
Concrete deep submergence hollow shell structures 7138
- Stachowicz, B.  
Determination of stresses under a punch in a nonhomogeneous elastic half-plane 3360  
Plane problem of a punch in a nonhomogeneous elastic medium 3361
- Stachurska, Z.  
See Zelisko, T. 6213
- Staehele, R. W.  
Effects of fabrication and processing on stress corrosion cracking of Fe-Ni-Cr alloys 5343
- Staerk, H.  
See Duffey, D. 428
- Staffin, H. K.  
See Casiano, R. M. 824
- Stafford, J. R.  
A multiple-scale solution for circular cylindrical shells 4253
- Stafford, R. O.  
See Lockett, F. J. 2587
- Stafford Smith, B.  
A method of analysis for infilled frames 7132
- Stagg, A. M.  
A method for the prediction of the probabilities of aircraft fatigue failures within a fleet of known size 5339  
An investigation of the scatter in constant amplitude fatigue test results of aluminum alloys 2024 and 7075 7937
- Staglich, E.  
A vortex model for the analysis of rotating stall 6440
- Staicu, S.  
See Carafoli, E. 8127
- Stakhanov, I. P.  
The solution of Milne's problem for the Bhatnager-Gross-Krook kinetic equation 8977
- Stakovichenko, E. I.  
See Liberman, A. D. 7126
- Stalker, R. J.  
See Gore, M. M. 8971
- Stallings, R. L., Jr.  
Experimental pressure distributions for a family of blunt bodies at Mach numbers from 2.49 to 4.63 and angles of attack from 0° to 15° 1200  
Experimental pressure distributions on a 120° cone at Mach numbers from 2.96 to 4.63 and angles of attack from 0° to 20° 6344  
Experimental heat-transfer distributions on a blunt lifting body at Mach 3.71 6412
- Stallybrass, M. P.  
A cruciform crack deformed by an arbitrary internal pressure 4213  
A pressurized crack in the form of a cross 7704
- Stamato, M. C.  
An approximate method for the three-dimensional analysis of tall buildings 3619
- Stamatopoulos, A. C.  
See Kotzias, P. C. 9498
- Stamper, J. A.  
Experimental study of the structure of plasma shock waves in a fast  $\theta$  pinch 6589
- Stancu, M.  
See Irimiciuc, N. 2555
- Stanescu, C.  
See Visarion, V. 5153
- Stanescu, K.  
See Visarion, V. 2652
- Stanisic, M. M.  
Some aspects of linear irreversible thermodynamics and continuum mechanics in the presence of electromagnetic fields 4701  
See also McNitt, R. P. 4699
- Staniszewski, B.  
Thermodynamics of systems at negative absolute temperature 522  
Thermodynamical analysis of heat engines and heat pumps operating within the range of negative absolute temperatures 7398
- Stanley, E. M.  
Viscosity of sea water at moderate temperatures and pressures 9975
- Stanley, R. M.  
See Bleustein, J. L. 9477
- Stanyukovich, K. P.  
See Dzhusupov, K. 6426
- Staples, K. J.  
Flight tests on the short SB5 with 60° sweepback and low tailplane: Part 1, Forces and moments 3836
- Stark, V. J. E.  
Use of complex cross-flow representation in nonplanar oscillating-surface theory 2150
- Starkman, E. S.  
See Sawyer, R. F. 9049
- Starkov, V. N.  
An analytic construction of conformal mappings of simply connected regions of a determined class 773
- Starks, H. J. H.  
Biomechanics and the design of motor cars 366
- Starner, K. E.  
Evaluation of electron quench additives in a subsonic air arc channel 5621
- Starostin, P. I.  
Operation of a vortex tube on high pressure superheated steam 7470
- Starzhinskii, V. E.  
Selecting cutter parameters for generating internal gear teeth 9612
- Starzhinskii, V. M.  
Parametric resonance in nearly canonical systems 1858

- Stassinopoulos, E. G.  
Parametric angles of trajectory-  
determined field line intersects  
predicting the location of artificial  
auroras 2928
- Stastny, M.  
Contribution to the effects of the  
Reynolds- and Mach-number on  
the flow in turbine cascades 6441
- Stasyulyavichyus, Yu. K.  
See Survila, V. Yu. 9000
- Statnikov, Yu. G.  
See Borisov, Yu. Ya. 649  
Arkhangelskii, M. E. 659  
Boguslavskii, Yu. Ya. 3129
- Staub, F.  
Digital period-meter with auto-  
matically selected optimum time  
intervals 2485
- Staub, F. W.  
Void response to flow and power  
oscillations in a forced-convection  
boiling system with axially non-  
uniform power input 5686
- Stauffer, A. D.  
See Laframboise, J. G. 449
- Stavsky, Y.  
Stability of heterogeneous ortho-  
tropic cylindrical shells in axial  
compression 6067
- Staylor, W. F.  
Flow-field investigation for large-  
angle cones with short spikes at a  
Mach number of 9.6 6350  
See also McGhee, R. J. 5506
- Stead, K. A.  
Normal-mode vibrations of systems  
of elastically connected concentric  
rings 8601
- Stear, E. B.  
Optimal filtering for Gauss-Markov  
noise 818
- Stearman, R. O.  
See Barr, G. W. 1451
- Stearn, S. M.  
Measurement of correlation coeffi-  
cients of acceleration on a random-  
ly excited structure 6103
- Stearns, C. R.  
Application of Lettau's theoretical  
model of thermal diffusion to soil  
profiles of temperature and heat  
flux 9163
- Stebbins, C. F.  
An experimental study of transverse  
ionizing MHD shock waves 597
- Stecco, S.  
On the thermal transient in internal  
combustion engine cylinder liners 3047
- Stechkin, B. S.  
The indicated efficiency of a com-  
bustion engine 4780
- Stechman, R. C.  
See Reis, R. J. 8886
- Steedman, J. C.  
Elastic design using SI unit 3594
- Steel, T. R.  
See Knops, R. J. 6851
- Steele, C. R.  
Asymptotic analysis of stress waves  
in inhomogeneous elastic solids 2728  
See also Lardner, T. J. 6905
- Steenbeck, M.  
Experimental discovery of the elec-  
tromotive force along the external  
magnetic field induced by a flow  
of liquid metal ( $\alpha$ -effect) 6593
- Steeves, E. C.  
See Walton, W. C., Jr. 832
- Stefan, I.  
The drag in supercavitating flow 1564
- Stefaniak, J.  
Concentrated loads as body forces 9328
- Steg, R. G.  
Scattering of Rayleigh waves by  
surface irregularities 6986
- Stegen, G. R.  
See Gibson, C. H. 8368
- Steger, J.  
See Layton, R. G. 2424
- Stein, G. D.  
Design of a multipurpose wind  
tunnel 3828
- Stein, P.  
Die Lösung der linearen gewöhnlichen  
Differentialgleichungen und  
simultaner Systeme mit Hilfe der  
Stabstatik: Das Ersatzbalkenver-  
fahren (Solution of ordinary dif-  
ferential equations and of simulta-  
neous differential equations sys-  
tems using elementary statics: The  
method of dummy bars) 901
- Stein, W. A.  
Criteria for the behavior of the  
quantities of state at the critical  
point 8173  
The applicability of Maxwell's  
criterion for the calculation of the  
thermodynamic quantities of state  
in the two-phase region 8174
- Steinbach, G.  
A nomograph for determining the  
booster-stream consumption of  
ejector condensers 8249
- Steinberg, B. N.  
See Harbold, M. L. 6114
- Steinberger, E. H.  
On the hydrodynamics of pairs of  
spheres falling along their line of  
centers in a viscous medium 6329
- Steltz, W. G.  
See Benedict, R. P. 3692
- Stengle, G.  
Uniform asymptotic solution of  
second-order linear differential  
equations without turning varieties 4
- Stepanchuk, N. F.  
See Saltanov, G. A. 8883
- Stepanchuk, V. F.  
Normal shocks in the wet steam  
region 1208  
New semi-empirical equation of  
state of steam 2957  
See also Deych, M. E. 2269
- Stepanenko, A. S.  
See Varvak, A. P. 6932
- Stepanenko, D. V.  
See Vinogradov, B. V. 1556
- Stepanenko, I. A.  
See Zykov, V. G. 1437
- Stepanenko, V. N.  
Investigation of stochastic approxi-  
mation of a particular kind 6795
- Stepanoff, A. J.  
Gravity flow of bulk solids and  
transportation of solids in suspen-  
sion 6665
- Stepanov, G. N.  
Pile foundation design for impact  
loading 7030
- Stepanov, G. Yu.  
See Gogish, L. V. 7251
- Stepanov, K. N.  
See Sizonenko, V. L. 2305  
Pakhomov, V. I. 2318
- Stepanov, S. Ia.  
On the set of steady motions of a  
gyrostat satellite in a central New-  
tonian force field and the stability  
of these motions 9321
- Stepanov, V. N.  
Specific features of the fatigue  
curves under fretting corrosion  
conditions 5341
- Stephan, K.  
Influence of heat transfer on melting  
and solidification in forced flow 1355
- Stephens, W. B.  
Axisymmetric static and dynamic  
buckling of spherical caps due to  
centrally distributed pressures 5200
- Stephens, W. E.  
See Cheng, D. Y. 5624
- Stephenson, C. J.  
Magnetohydrodynamic flow be-  
tween rotating coaxial disks 3937
- Stepkowska-Paszyc, E.  
Study in formulation of the kinema-  
tic equation of the shear strength  
of saturated clays 244
- Sterman, L. S.  
A study of heat transfer and critical  
heat flux when boiling diphenylben-  
zene mixtures 5687
- Stern, F.  
Condensation from superheated gas-  
vapor mixtures 6504
- Stern, M.  
See Fournay, W. L. 3429
- Sternberg, E.  
See Muki, R. 1702  
Muki, R. 1708
- Sternberg, H. M.  
Similarity solutions for reactive  
shock waves 8882
- Steup, H.  
Effect of the initial deformations  
and the residual stresses on the  
buckling of plates in the post-  
critical range 6061
- Steurer, J. W.  
See Haugen, R. L. 4623

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Stevens, A. L.  
Wave propagation in prestrained polyethylene rods 9478
- Stevens, K. K.  
Parametric resonance of viscoelastic columns 3477  
Transverse vibration of a viscoelastic column with initial curvature under periodic axial load 6104
- Stevens, K. N.  
See Williams, C. E. 1479
- Stevenson, J. D.  
See Moses, F. 8763  
Haga, P. B. 9596
- Stevenson, T. N.  
Two-dimensional waves generated by a travelling oscillating cylinder  
Axisymmetric internal waves generated by a travelling oscillating body 3790
- Steverding, B.  
Critical Reynolds numbers for flows containing particles 465  
Laminar-turbulent transition 2132  
Incubation and relaxation time for dislocation motion 8543
- Steward, D. F.  
A matrix transformation for the direct generation of Lyapunov state functions 9276
- Steward, F. R.  
See Fang, J. B. 4763
- Stewart, D. A.  
Convective heat-transfer rates on large-angle conical bodies at hypersonic speeds 7429
- Stewart, E. C.  
An adaptive random-search algorithm for implementation of the maximum principle 4195
- Stewart, I. McC.  
A simplified heat transfer equation for sinter beds 524
- Stewart, J. D.  
Mass flow rate for nearly-free molecular slit flow 2112
- Stewart, P. S. B.  
Isolated bubbles in fluidised beds: theory and experiment 6678
- Stewart, R. B.  
Arc motion in high-pressure cross-field devices 6580
- Stewart, R. J.  
See Holt, A. G. J. 7677
- Stewart, R. W.  
Nonlinear effects on surface waves 1266
- Stewartson, K.  
On the flow near the trailing edge of a flat plate 4606  
On the flow near the trailing edge of a flat plate: Part II 5493  
Eigenvalues for the blast wave 7236  
See also Riley, N. 3724
- Stibitz, G. R.  
See Prior, R. E. 6741
- Sticha, E. A.  
Tubular stress-rupture testing of chromium-molybdenum steels with high-pressure hydrogen 9154
- Stickney, R. E.  
See Lou, Y.-S. 7273
- Stiefel, E.  
Stabilization of Cowell's method 2477
- Stiglat, K.  
Plate supported on all four edges and subject to boundary moments 1767  
Infinite, at two edges simply supported plate under surface moments: Effective width 5148
- Stikhanovskii, B. N.  
On the selection of values for the coefficient of restitution for elastic impact of bodies 7001
- Stiller, W.  
Kinetic theory of weakly ionized time-varying magnetoplasmas 6576
- Stillwell, E. P.  
Two "whisker" straining devices suitable for low temperatures 8335
- Stilp, A.  
The free-flight ballistic tunnel of the Ernst-Mach-Institute 5622
- Stimberg, C.  
See Filippi, S. 3279
- Stimpson, B.  
Modelling materials for engineering rock mechanics 7883
- Stimson, H. F.  
Some precise measurements of the vapor pressure of water in the range from 25 to 100°C 5636
- Stinnett, G. W.  
See Watson, D. M. 4849
- Stippes, M.  
On stress functions in classical elasticity 7702  
See also Shadman, D. 5056
- Stochl, R. J.  
Gaseous-hydrogen pressurant requirements for the discharge of liquid hydrogen from a 1.52-meter (5 ft) diameter spherical tank 2888  
Gaseous-hydrogen pressurant requirements for the discharge of liquid hydrogen from a 3.96-meter (13 ft) diameter spherical tank 2889  
Gaseous-helium requirements for the discharge of liquid hydrogen from a 1.52-meter (5-ft) diameter spherical tank 3897
- Stock, T. A. C.  
The deformation produced during deep punching 1069
- Stockbridge, J. G.  
Strain in brick wall of five-story building 9601
- Stockmann, V.  
See Noack, D. 6199
- Stoddart, A. W. J.  
Estimation of optimality for multi-dimensional control systems 8476
- Stoianov, N. V.  
Stabilizing a nonlinear controlled system for steady-state motions in the critical case of a double zero root 43
- Stoica, M.  
See Ivanov, I. 2764
- Stojanovitch, R.  
On the stress relation in nonlinear thermoelasticity 5808
- Stokes, V. K.  
On some effects of couple stresses in fluids on heat transfer 548
- Stokke, E. B.  
The semidiurnal oscillation in a thermal-geostrophic atmosphere 8367
- Stolbin, G. B.  
See Norovskii, A. A. 9608
- Stollery, J. L.  
A comparison between some approximate and exact solutions of the laminar boundary-layer equations 9680  
See also Burns, W. K. 4758
- Stolyarov, N. N.  
Large deflections of a shallow shell of rectangular planform with clamped edges 950  
Mean flexure of a shallow shell, rectangular in projection, with built-in edges 9387
- Stolze, K.  
See Forsching, H. 7828
- Stone, B. J.  
Optimization of vibration absorbers: Application to complex structures 4318
- Stone, D. R.  
See Goldberg, T. J. 7326
- Stone, J. R.  
Tests of a single-tube-in-shell water boiler with helical-wire insert, inlet nozzle, and two different inlet-region plugs 7451
- Stone, N. H.  
The simulation of ionospheric conditions for space vehicles 9889
- Stoner, M. A.  
Analysis and control of unsteady flows in natural gas piping systems 8944
- Story, R. W.  
Profile measurement of coated abrasive surfaces 1914
- Stott, P. E.  
A transport equation for the multiple scattering of electromagnetic waves by a turbulent plasma 2314
- Stout, R. B.  
Elastic/plastic torsion of hollow cylinders 8534
- Stout, R. D.  
Heat treatment effects of multiple-pass welds 8010
- Stowe, R. L.  
Strength and deformation properties of granite, basalt, limestone and tuff at various loading rates 3518
- Stowell, E. Z.  
Theory of metal fatigue at elevated temperatures 1087
- Strach, V.  
The boundary layer influence on the shadow of the body 8168
- Strafford, K. N.  
The creep of CoO scales: The influence of stoichiometry, stress and temperature 7718

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Strahle, W. C.  
High-frequency behavior of the laminar jet flame subjected to transverse sound waves 1394
- Strakhovich, K. I.  
Approximate solution of the laminar boundary layer equation for a non-Newtonian fluid on a plate 7286
- Strang, G.  
On the construction and comparison of difference schemes 781  
On multiple characteristics and the Levi-Lax conditions for hyperbolicity 2465
- Strannigan, J. S.  
Application of grids to plastics for the moire fringe method of strain measurement 1954
- Stratmann, J.  
See Denzel, P. 9084
- Stratonovich, R. L.  
Is there a theory of synthesis of optimal adaptive self-learning and self-adjusting systems? 821
- Strauss, J. C.  
See Gracon, T. J. 5918
- Strauss, L.  
Wave generation and shaping: 2nd edition 5006
- Strawderman, W. A.  
Turbulent flow-excited vibration of a simply supported, rectangular flat plate 2162  
Turbulence-induced plate vibrations: An evaluation of finite- and infinite-plate models 4652
- Street, P. J.  
See Horn, G. 2295
- Street, R. L.  
See Zagustin, K. 3785
- Streeter, V. L.  
Water hammer analysis 8141
- Strehlow, R. A.  
Transverse waves in detonations: Part 1, Spacing in the hydrogen-oxygen system 1397  
Transverse waves in detonations: Part 2, Structure and spacing in  $H_2-O_2$ ,  $C_2H_2-O_2$ ,  $C_2H_4-O_2$ , and  $C_2H_6-O_2$  systems 1398  
Experimental and analytical study of  $H_2$ -air reaction kinetics using a standing-wave normal shock 2189  
The nature of transverse waves in detonations 4859  
On the strength of transverse waves in gaseous detonations 9035
- Strekalov, S. S.  
See Krylov, Yu. M. 7577
- Strelbitskaya, A. I.  
Influence of mixed edge conditions on elasto-plastic states of stress in plates 1769  
Some problems of bending of plastically nonhomogeneous plates 1770
- Strelkoff, T.  
Numerical solution of Saint-Venant equations 9629  
Pattern of potential flow in a free overfall 9633  
See also Hart, W. E. 3200
- Strelkoff, T. S.  
See Fangmeier, D. D. 3677
- Strelkov, S. P.  
See Landa, P. S. 5757
- Stricklin, J. A.  
Dynamic buckling of clamped spherical caps under step pressure loadings 6070
- Strieder, W.  
Upper and lower bounds on the shear stress of a rarefied gas 8079
- Stringer, J. D.  
See Healey, A. J. 3644
- Striz, B.  
Axially-symmetric problem of plasticity with linear anisotropic strain-hardening 7731
- Strizhalo, V. A.  
Determination of cyclic plasticity under program-controlled load and temperature 4440  
See also Pisarenko, G. S. 686
- Strobel, H.  
On the analysis of stochastically disturbed systems by combined evaluation of time and frequency functions 9282
- Strokov, V. I.  
See Barabanov, V. N. 7939
- Strom, L.  
The generation of monodisperse aerosols by means of a disintegrated jet of liquid 4041
- Strom, T. N.  
Vibration of shaft face seals and stabilizing effect of viscous and friction damping 5873  
See also Ludwig, L. P. 1570
- Strscheletzky, M.  
On calculation of wings and blading according to Prandtl's theory of the lifting vortex 8919
- Struck, H. G.  
Discontinuous flows and free streamline solutions for axisymmetric bodies at zero and small angles of attack 5472
- Strum, E. J.  
Aluminized composite solid-propellant burning rates in acceleration fields 5716
- Strunck, S. S.  
See Stout, R. D. 8010
- Strunina, A. G.  
Laws of thermal explosion: Part 2, Constant cooling rate 5786  
Dynamic regimes of thermal explosion: Part 4, Experimental study of thermal explosion of various substances 9122
- Strupp, H.  
The accuracy of calorimetry in air flow measurement 8966
- Stuart, J. T.  
See Williams, J. E. F. 5561
- Stubberud, A. R.  
See Sorenson, H. W. 51  
Stear, E. B. 818
- Stubbs, S. M.  
Effects of bottom-structure flexibility on water landing loads of Apollo spacecraft models 6438
- Stubbs, T. F.  
Rocket propulsion in an inverse square force field 3994
- Stuckey, T. J.  
Investigation and prediction of helicopter rotor noise: Part 1, Wessex whirl tower results 647
- Studnev, R. V.  
See Byushgens, G. S. 3760
- Stukach, V. N.  
Longitudinal transverse flexure of helical compression springs 5427
- Stumke, H.  
Systematic treatment of the attitude control of spinning flight 5025
- Stumpf, H.  
Finite difference method in the theory of elasticity: Parts 1, 2, and 3 4215
- Stumpf, V. M.  
Hull form effects on the resistance of large tankers 4954
- Stupnicki, J.  
Stress measurements by the method of photoelastic coating 8734
- Stupochenko, Ye. V.  
Relaxation in shock waves 433
- Sturrock, P. A.  
See Hall, D. E. 1435
- Stuwe, H.-P.  
Instability in tensile and torsion tests 7087  
Superplasticity 8540
- Su, C. H.  
See Pao, Y.-P. 9225
- Su, C.-L.  
Heat conduction in a rarefied gas between concentric cylinders 5669
- Su, M.-Y.  
See Meecham, W. C. 8911
- Subba Raju, K.  
See Sitharamayya, S. 9796
- Subba Raju, P. V.  
Hydromagnetic forced flow against a porous rotating disk 1232  
Forced flow of a viscoelastic liquid against a rotating disk 2043
- Subba Rao, A.  
See Ganapathy, S. 9274
- Subbotin, A. I.  
See Krasovskii, N. N. 5920
- Subbotin, V. I.  
The temperature distribution in liquid metal cooled fuel elements 1340  
Method of computing temperature fields in noncircular channels 2227
- Subramanian, G.  
See Subramonian, N. 8589
- Subramanian, N. R.  
Real gas effects in hypersonic flow around a hemispherically blunted cylinder 7237

## Subramanian, N. R. (Continued)

- See also Leelavathi, K. 8057  
Narayana, C. L. 8909  
Ramabhadran, S. 8921
- Subramanian, R. 8875  
See Srinivasan, S. K.
- Subramanyam, S. V.  
A note on the damping and oscillations of a fluid drop moving in another fluid 6676  
A calculation of the viscous energy dissipation in a convergent flow and its application to the process of emulsification 7212  
A study of the oscillations of a viscous fluid drop moving in a background fluid medium 9723
- Subramonian, N.  
Lateral buckling of a simply supported uniform diaphragm 8589
- Sucec, J.  
See Smith, P. J. 1316
- Suckewer, Sz.  
See Brzozowski, W. 9087
- Sud, V. K.  
On fluctuating flow past a wavy wall 8854  
See also Singh, M. P. 2161
- Sudorov, I. M.  
Determination of the position angle of an artificial satellite from the data of the magnetic field 3108
- Suetin, P. E.  
Baroeffect and diffusional slip 8085  
See also Porodnov, B. T. 8080
- Sugai, K.  
On vibratory forces induced on the rudder behind a propeller 3222
- Sugihara, K.  
Stress analysis by non-equidistant finite difference method: Part 1, (in English), Part 2, High accuracy method 5149
- Sugimura, Y.  
See Miyake, Y. 5847
- Sugiura, K.  
A heavy elastic circular ring partially supported by a rigid body 5143
- Sugiyama, Y.  
See Otsuka, S. 9705
- Suh, C. H.  
On the duality in the existence of R-R links for three positions 2823
- Suh, N. P.  
The yielding of truncated solid cones under quasi-static and dynamic loading 7733
- Suhara, T.  
Metallic spray by wire explosion 4862
- Suhubi, E. S.  
On the foundations of the theory of rods 88  
Theory of thermoelastic bending of straight bars 677  
Elastic dielectrics with polarization gradient 2965
- Suk, J.  
A contribution to the question of the frequencies of piezoelectric plates 6953
- Sukhanov, V. M.  
Dynamics of a controlled gravitationally stable satellite-stabilizer system 45
- Sukhatme, S. P.  
See Sharma, G. K. 2985
- Sukhikh, L. I.  
Elastic-plastic torsion of a bar with a longitudinal notch 2601
- Sukhov, G. S.  
See Burminskii, E. P. 1440
- Suklje, L.  
Rheological aspects of soil mechanics 3502
- Sukomel, A. S.  
An experimental study of local heat transfer with air flowing in the first section of a round tube 9797
- Sukselainen, I. J.  
Effect of the longitudinal inertia radius on the seakeeping qualities of ships 2426  
Model tests in irregular sea 4961
- Suksov, I. I.  
Calculation of the laminar friction and heat transfer characteristics of a high-temperature gas 8098
- Sukup, J.  
A contribution to the problems of pressure pulsations in a radial centrifugal pump 8955
- Sule, W. P.  
See Mueller, T. J. 9753
- Sulikashvili, R. S.  
Stability of stationary motion for a gyroscope which is mounted on a satellite in a central Newtonian field 9320
- Sulimov, A. A.  
See Belyaev, A. F. 5706
- Sullivan, B. R.  
Study of vibration of concrete: Report 2, Mechanical impedance measurements 2713
- Sullivan, E. M.  
See Falanga, R. A. 8880
- Sullivan, J. J.  
See Crane, L. S. 2015
- Sullivan, P. A.  
Interaction of a laminar hypersonic boundary layer and a corner expansion wave 9688
- Sulocki, J.  
See Kuligowski, A. 9945
- Sumi, N.  
See Takeuti, Y. 4896
- Summerfield, M.  
See Waldman, C. H. 8234
- Sun, F. T.  
Analytic solution for optimal two-impulse 180° transfer between noncoplanar orbits and the optimal orientation of the transfer plane 7508
- Sun, Y. C.  
Bow wave of a delta wing at zero incidence in steady supersonic flow at the transition from sub to supersonic leading edge 4629
- Sun, Z. S.  
See Tien, C. 6495
- Sunada, D. K.  
See Ahmed, N. 8343
- Sundararajan, V.  
See Rao, S. S. 1827
- Sunder, D.  
See Milic, B. 1427
- Sunderland, J. E.  
See Hodgson, J. W. 563  
Olcer, N. Y. 2216  
Cho, S. H. 5681  
Cowling, P. W. 6467
- Sunderland, P. W.  
Creep during dehydroxylation of magnesium hydroxide 7721
- Sunouchi, H.  
Perturbation theory of difference schemes 7648
- Suntsev, V. N.  
See Larin, V. B. 1667
- Super, B. S.  
See Preminger, J. 9272
- Suponitskii, A. M.  
Self-similar problems of convective diffusion in the presence of heterogeneous chemical reactions with allowance for thermal diffusion effects 7453
- Supple, W. J.  
Initial postbuckling behavior of a class of elastic structural systems 2668
- Surek, D.  
Investigation into the intake process of self-priming pumps 4676
- Surinov, Yu. A.  
Numerical investigation of local emission characteristics for a pair of coaxial cylinders of finite length 4737  
Estimating the accuracy of approximate solutions of integral equations for radiant heat transfer 5677  
An application of a new method of numerical determination of the local characteristics of radiation to the investigation of radiant heat transfer in a square chamber with nonadiabatic brick lining 8211
- Survila, V. Yu.  
Influence of transverse curvature of a cylinder on its heat transfer in longitudinal flow 9000
- Suryanarayana, V.  
An optimal linear voltage regulator for power systems 9295
- Sussi, I. R.  
Research of the stability of motion of a shaft on slip bearings by the modified Galerkin method 4296
- Sutherland, I. A.  
Forced vibration and chatter in horizontal milling: An investigation using a structural model 6971

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Suttles, J. T.  
A method of integral relations solution for radiating, nonadiabatic, inviscid flow over a blunt body 1350
- Sutton, D.  
See Pearson, G. S. 2286
- Sutton, G. W.  
Wake-temperature turbulent fluctuation decay rates deduced from O<sub>2</sub> radiation 9658
- Suu, T.  
See Iwanami, S. 9626  
Iwanami, S. 9627
- Suva, S.  
About parameters adjustment of impulse-type controllers with pulse-width modulation 7661
- Suwa, S.  
See Kusakawa, K. -I. 9882
- Suyehiro, S.  
Change in earthquake spectrum before and after the Matsushiro Swarm 8354
- Suzdalnitskii, I. D.  
See Kurshin, L. M. 2574
- Suzuki, M.  
See Aoki, R. 3165
- Suzuki, S.  
Stress measurements in an infinite plate with a hole reinforced by different materials 4222
- Suzuki, S. -I.  
Effects of solid viscosities, loading velocities and initial deflections to dynamic buckling loads of a column 9408
- Suzuki, T.  
See Minagawa, S. 886
- Suzuki, Y.  
See Yamada, Y. 5474
- Sve, C.  
Indentations of an elastic layer by moving punches 4232
- Sved, G.  
Proceedings of the Second Australasian Conference on the Mechanics of Structures and Materials held under the auspices of the Civil Engineering Department, The University of Adelaide, Aug. 25-27, 1969 4209
- Svehla, R. A.  
See Prferl, D. J. 1403
- Sveklo, V. A.  
A complex representation of the solution in the plane theory of elasticity 6830
- Sveshnikov, D. A.  
See Parkhilovskii, I. G. 7991
- Svistunov, V. E.  
See Vlasov, V. I. 6284
- Svoboda, P.  
See Korntheuer, H. 892
- Swaffield, J. A.  
The influence of bends on fluid transients propagated in incompressible pipe flow 8947
- Swain, R. R.  
Providing safety, efficiency, and by-product fuel utilization in a boiler combustion control system 6526
- Swaininger, K. H.  
The mathematically linear analysis of strain in continua 836
- Swainston, M. J. C.  
Development of spanwise velocity profiles through cascades and axial-flow turbomachines 4657
- Swan, G. W.  
Aspects of magnetogasdynamic flows involving upstream influence effects 2327
- Swanick, B. H.  
See Graupe, D. 6791
- Swearingen, T. B.  
See Reynolds, H. C. 560
- Sweeney, G.  
Survey of basic machine tool chatter research 4310  
See also Turner, R. H. 3535
- Sweet, G. E.  
An experimental and analytical investigation of balloon-type enclosures for thermal control of satellites 636
- Sweet, H. J.  
Room temperature three-dimensional photoelastic model study of a complex airframe component 7921
- Swenson, D. O.  
Discrete dislocation model of a fatigue crack under shear loading: Part 1 5331  
Mean stress effect on the shear fatigue crack model: Part 2 5332  
Transition between Stage I and Stage II modes of fatigue crack growth 8718
- Swenson, E. J.  
From Bode to root locus via the log s-plane 41
- Swift, G. W.  
See Chen, M. C. S. 1296
- Swigert, P.  
See Canright, R. B., Jr. 2484
- Swinkels, G. M.  
A matrix analysis of a simple biokinetic mechanism 4111
- Switick, D. M.  
A solution for unsteady magneto-hydrodynamic flow including ion-slip effects 2302
- Switka, R.  
A sheet-bar system subject to body-forces 7953
- Switzky, H.  
Design and analysis of frames for stability 1801
- Swofford, D. P.  
A method for the thermal analysis of spacecraft, including all multiple reflections and shading among diffuse, gray surfaces 9006
- Syal, I. C.  
Elastic behavior of biaxially loaded steel columns 6053
- Syamala Rao, B. C.  
Distribution of energy losses at conduit trifurcations 3667
- Syamala Rao, C.  
See Krishnamurthy, V. V. G. 5660
- Sychev, V. V.  
See Neiland, V. Ya. 5571
- Sydow, A.  
A method for accurately implementing the gradient method on the analog computer 6802  
The state of art in GDR analog computing 9263
- Sykes, D. M.  
Cylindrical and boat-tailed afterbodies in transonic flow with gas ejection 9711
- Sykes, G. F., Jr.  
Effects of heat sterilization and vacuum exposure on some low-density heat-shield materials 9152
- Sykes, J. A.  
Laminar flow of two immiscible liquid falling films 7213
- Syniuta, W. D.  
Scanning electron microscope studies of fracture mechanisms of SAE 52100 bearing steel 8714  
A scanning electron microscope fractographic study of rolling-contact fatigue 8723
- Syrkin, L. N.  
See Zarkhin, V. I. 9140
- Sysoev, L. A.  
See Obukhovskii, Ya. A. 3133  
Komar, V. K. 6643
- Sytin, O. G.  
Determination of the orbit from known values of the velocity vector at two arbitrary instants of time 1460
- Szablewski, W.  
Turbulent boundary layers in the vicinity of separation 5564  
Turbulent boundary layers with favorable pressure gradients 6370  
Incompressible turbulent boundary layers with heat and mass transfer 8917
- Szabo, A.  
See Kisbocskoi, L. 8147
- Szabo, B. A.  
Stiffness matrix for plates by Galerkin's method 1761
- Szabo, G.  
Error propagation in the calibration of flow meters at the model: Part 1 8965
- Szabo, Gy.  
Observations and experiences during the dewatering of a foundation pit 7876
- Szabo, I.  
The original form of some laws of mechanics 4989
- Szadkowski, A.  
On motion of a partly inertialess conservative system 7804
- Szalai, J.  
Determination of the integral constants in the computation of circular cylindrical tanks and barrel shells 3403

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Szalai, K.  
Load bearing capacity of reinforced concrete compression members 6253
- Szczeniowski, B.  
Study of gas turbine cycles with an isothermal burner and/or diffuser-burner 5730
- Szczepinski, W.  
On the lines of influence of plastic deformation 2610  
Experimental verification of some theoretical solutions of large plastic deformations of metals 4375  
*See also* Dietrich, L. 146  
Mistkowski, J. 9357
- Szczurek, J.  
*See* Rafalski, P. 2213
- Szebehegy, V.  
Mean motions and characteristic exponents at the libration points 7504  
*See also* Tapley, B. D. 4847
- Szechy, K.  
The art of tunnelling 352
- Szefer, G.  
*See* Stachowicz, B. 3361
- Szego, G. C.  
Optimization of energy storage for solar space power 8300
- Szekely, I.  
A kinematic investigation of spatial mechanisms with several degrees of mobility by means of transmission functions 2031
- Szeless, A. G.  
Undulating plate type propeller: The two-dimensional ideal case 3806
- Szewalski, R.  
The binary vapor turbine set of great output, its concept and some basic engineering problems 4768
- Szilagyi, B.  
The characterization of the dynamic behavior of a nonlinear control system with the help of the root-locus 6786
- Szlaza, J.  
Laminar flow of a three-phase viscous medium in a tube of elliptical cross section 7208
- Szmodits, K.  
Applications of the method of fixed points 195  
Vibration of spring systems and of shafts with disks 6084
- Szomanski, E.  
*See* Hart, J. A. 5658
- Szucs, B.  
Circulatory system analysis by a stochastic method using an analog correlator 9216
- Szucs, E.  
*See* Horvath, F. 6669
- Szuster, A.  
Subsoil forming around bridge pillars during the flow of flood waves: Model tests 9511
- Szyc, W.  
Nonlinear stability problem of a cylindrical shell 6065
- Szymanski, Cz.  
Steady plane flow of a granular material with account for gravity and inertia forces 1516
- T**
- Tabaddor, F.  
Two-dimensional bi-linear orthotropic elastic materials 4234
- Tabakoff, W.  
Drag analysis of powered nacelle fan jet engine model test 7477  
*See* Kercher, D. M. 9801
- Tabarrok, B.  
On duality in the oscillations of framed structures 212
- Taccoen, L.  
Contribution to the study of the conductive sublayer: Turbulent flow in a tube 2914  
Turbulent diffusion in the wake of a wire 5580
- Tachibana, M.  
*See* Iwanami, S. 391
- Tacina, R. R.  
*See* Fear, J. S. 6533
- Tadjbakhsh, I. G.  
Utilization of time-dependent data in running solution of initial value problems 1555
- Tagiev, I. G.  
An approximate method of solution of a boundary problem of shallow shells of variable thickness and curvature 1780
- Tago, A.  
*See* Hayama, M. 273
- Tahir-Kehli, R. A.  
Moment-conserving decoupling procedure for many-body problems 833
- Tai, K. L.  
*See* Ohring, M. 6870
- Taira, S.  
Crystallographic study of yield condition of polycrystalline metals: Part 3, Relation between slip in crystals and yield condition 2613
- Tairova, G. I.  
*See* Moskvitin, V. V. 4415
- Tait, K. E.  
Nonlinear properties of discrete-continuous feedback control systems with signal dependent sampling: Part 2, Nonlinear properties 2515
- Taitel, Y.  
Exact solution for the "radiation layer" over a flat plate 1346  
Formulation of two-dimensional radiant heat flux for absorbing-emitting plane layer with non-isothermal bounding walls 3871  
Condensation in the presence of a noncondensable gas in direct contact 8224
- Taits, N. Yu.  
*See* Kozinets, V. P. 5652
- Tajer-Ardabili, D.  
*See* Soliman, J. I. 2703
- Takacs, L.  
On dams of finite capacity 716
- Takagi, M.  
On the accuracy of the strip theory, used for calculation of ship motions in waves 3220
- Takahashi, H.  
*See* Funabashi, K. 4109
- Takahashi, M.  
*See* Yonezawa, M. 1251  
Yazaki, A. 5864
- Takahashi, R.  
On the dynamic behaviors of natural circulating BWR 2257  
Design study of steam cooled fast breeder reactor 3921
- Takahashi, S.  
The vibration of a cylindrical shell with three supports 2691
- Takahashi, T.  
A note on the annual heat exchange across the air-sea boundary surface 6710
- Takaki, R.  
Wave motion on a liquid layer falling along a vertical wall 7336  
Inhomogeneous turbulence without mean flow 9700
- Takaku, K.  
*See* Nozaka, M. 3961
- Takami, A.  
Flow in a calender 2858
- Takamoto, K.  
*See* Sata, T. 1968
- Takao, K.  
Comparison among radio tracking systems at Kyoto University 9116
- Takaoka, Y.  
*See* Nishihara, H. 610
- Takashima, M.  
Nature of the neutral state in convective instability induced by surface tension and buoyancy 8194
- Takashima, Y.  
*See* Mikami, H. 442  
Mikami, H. 450
- Takata, H.  
The fatigue life of ball bearings made of vacuum degassed steels 7601  
*See also* Nagano, S. 8160
- Takaya, K.  
The use of Hermite functions for system identification 794
- Takeda, S.  
*See* Funahashi, A. 3070
- Takematsu, M.  
Stability of a laminar flow along a flexible boundary: Part 2 6386
- Takemiya, H.  
*See* Yamada, Y. 9605
- Takemura, T.  
*See* Minato, K. 8381
- Takenaka, T.  
The dynamic characteristics of oil hydraulic control valve 4547

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Takeno, T.  
 A theoretical study for initiation of high-frequency combustion oscillation in premixed gas rocket 1407
- Takeuchi, H.  
 Theory of the Earth's interior 1532
- Takeuchi, R.  
 See Nakamura, A. 2384
- Takeuchi, T.  
 Theory of low temperature work-hardening of body-centered cubic metals 5113
- Takeuti, Y.  
 Thermal stresses in a polygonal cylinder with a circular hole under internal heat generation 1503  
 Steady-state thermoelastic problem for a triangular prism with a circular hole under nonuniform heat generation 4896
- Takeyama, H.  
 Sensors of tool life for optimization of machining 4383
- Takhar, H. S.  
 Entry-length flow in a vertical cooled pipe 2238
- Takizawa, E. I.  
 See Kobayasi, K. 5246
- Talantov, A. V.  
 See Zotin, V. K. 6522
- Talbot, L.  
 See Bellhouse, B. J. 3248
- Tall, L.  
 See McFalls, R. K. 1145
- Talley, W. K.  
 See Gileadi, A. E. 3118
- Talwar, S. P.  
 See Rao, S. S. 6569
- Talypov, G. B.  
 Analysis of experimental data on the Bauschinger effect and their theoretical interpretation 7734
- Tamaki, H.  
 See Ishiki, N. 9039
- Tamarin, A. I.  
 Laws of propagation of an instantaneous heat pulse in a fluidized bed 2274
- Tamate, O.  
 Behavior of a screw dislocation near a partially bonded bimetallic interface 3383  
 Postbuckling behavior of thin curved panels under axial compression 5204  
 Stresses in an infinite body with a partially bonded circular cylindrical inclusion under longitudinal shear 5988  
 The effect of a circular inclusion on the stresses around a line crack in a sheet under tension 5990  
 Large elastic deformations of an infinite plate having a square or triangular hole with rounded corners under biaxial tension 6822
- Tamayo, P.  
 See Varschavsky, A. 5366
- Tamir, A.  
 See Taitel, Y. 8224
- Tamsalu, R. E.  
 See Marchuk, G. I. 8363
- Tamulenis, A. P.  
 See Zhukauskas, A. A. 2228
- Tamura, H.  
 See Atsumi, A. 5067
- Tamura, K.  
 See Ichikawa, K. 4198
- Tamuzh, V. P.  
 See Lagzdynsh, A. Zh. 866
- Tan, C. W.  
 Transient heat transfer in MHD plane Couette flow 3055
- Tanabe, S.  
 See Ohigashi, S. 511
- Tanaeva, S. A.  
 Unsteady moisture transfer in capillary-porous substances 1367  
 Experimental study of nonstationary liquid flow capillary-porous bodies 3181
- Tanahashi, T.  
 Analysis of the waterhammer with water column separation 7343
- Tanaka, K.  
 See Hiraoka, M. 1387
- Tanaka, M.  
 See Yoshida, A. 1929  
 See Mitsuishi, N. 2224
- Tanaka, T.  
 See Seki, M. 8719
- Taneda, S.  
 Standing twin-vortices behind a thin flat plate normal to the flow 2079  
 See Honji, H. 3687  
 Honji, H. 6336  
 Honji, H. 8053
- Tang, J. Y. T.  
 Effect of tensor conductivity on collisionless magnetogasdynamic flows 3075  
 The effect of tensor conductivity of continuum magnetogasdynamic flows 7488
- Tang, S.  
 Natural vibration of isotropic plates with temperature-dependent properties 208  
 Elastic stresses in rotating anisotropic disks 952  
 Note on acceleration stress in a rotating disk 9405
- Tanger, G. E.  
 See Vachon, R. I. 1364
- Tanida, Y.  
 Stall-flutter in cascade: Part 3, Arbitrary mode vibration of cascade blades as treated by semi-actuator disk method 3975
- Tanigaki, K.  
 See Oi, H. 8378
- Taniguchi, O.  
 See Endo, M. 4303
- Taniguchi, T.  
 A simplified analyzing method for the transient stability of power system 791
- Tanishita, I.  
 A new equation of state for compressed water up to 1000 bar and up to 350°C 4714
- Taniuti, T.  
 See Asano, N. 5271
- Tanner, C. B.  
 Evaporation from unsaturated surfaces: A generalized combination method 3879
- Tanner, L. H.  
 Effects of suction on the interaction between shock wave and boundary layer at a compression corner 7309
- Tanner, R. I.  
 Increase of bearing loads due to large normal stress differences in viscoelastic lubricants 1576  
 Network rupture and the flow of concentrated polymer solutions 4526
- Tanskii, A. M.  
 Calculating parameters of an optical instrument for measuring velocity by the contactless method 4686
- Tao, L. C.  
 Generalized solution of freezing a saturated liquid in a convex container 2996  
 Stability of heated elastic plastic column 5825
- Tapley, B. D.  
 Trajectory optimization using regularized variables 4847  
 See also Powers, W. F. 2344
- Tarakanov, Yu. A.  
 Measuring the vertical gravity gradient by the motion of a torsion balance 3198  
 A disturbance-resistant group of torsion balances 5843
- Tarakanovskii, A. A.  
 See Katsnelson, B. D. 8239
- Taran, V. A.  
 A discrete adaptive system with a random search for an extremum 4201
- Taranov, B. P.  
 Contingent errors in calculations of steam turbine stages for changed operational conditions 580
- Tararoeva, A. D.  
 See Bumyantsev, A. P. 4028
- Tarasenko, A. P.  
 Problems of connecting plates to a cylindrical shell 158
- Tarasov, B. L.  
 Experimental investigation of the active pressure of a clay soil on a retaining wall 5308
- Tarasova, N. V.  
 Hydraulic resistance with surface boiling of water in a tube with uneven heat flux distribution along its length 6503
- Taraszkiewicz, Cz.  
 Working-load and deflection of a prestressed steel beam 4247

- Tarjan, L.  
The conduction of pneumatic energy through vertical pipelines used in mining 5502
- Tarnoczy, T.  
Vibration of metal plates covered with vibration damping layers 8628
- Tarnopolskii, M. D.  
Parameters of plane separated flow 6391
- Tarnopolskii, Yu. M.  
Distortion of cross sections during deformation of oriented glass-reinforced plastics 150
- Tartakovskii, D. M.  
An approximate method of determining the settlement of a foundation with allowance for lateral deformation of the soil: Material for discussion 6133
- Tartakovskii, I. B.  
Calculating the wear on machine components 3234
- Tasai, F.  
Effect of shallow water on the natural period of heave 5860
- Tasca, D.  
Axisymmetric vortex-free flow in an axial turbine 8149
- Tashjian, H.  
Computation of the potential function of a compressible fluid near Mach number 1 7232
- Taskoprulu, N. S.  
See Barlow, A. J. 1154
- Tasso, H.  
See Schram, P. P. J. M. 3946
- Tatarinov, P. I.  
Calculation of a shallow-thin-walled cylindrical shell, taking into account the three-dimensional strains in a state of pure flexure 8566
- Tatarinov, P. P.  
Stiffness of thin-wall, hollow rectangular beams in pure bending 6877
- Tatarnikov, I. Ya.  
Importance of lubrication in increasing the wear-resistance of splined joints 4088
- Tate, A.  
Further results in the theory of long rod penetration  
Spin required to limit projectile oscillations in a finite range 1049  
9923
- Tatnall, F. G.  
Development of the scratch gage 307
- Tatnall, M. L.  
See Porter, B. 7671
- Tatsuno, M.  
Transfiguration of surface waves 9729
- Tauchert, T. R.  
Transient temperature distributions in viscoelastic solids subject to cyclic deformations  
See also Blejwas, T. E. 3160  
1948
- Tauscher, H.  
Fatigue strength of the heat-resistant steel X 10 Cr Ni W Ti 36.15 at elevated temperature 4401
- Tauscher, W.  
Measurement of the thermal conductivity of liquid refrigerants by an unsteady-state hot wire method 537
- Taussig, R. T.  
See Leloup, C. 2326
- Taya, T.  
A photoelastic study on the stresses in haunches or angle corner parts of structures: Part 7, The isochromatics and isopachics in T-type angle parts testing models of rigid frame 6210
- Taylor, B. S.  
See Jarvis, R. J. 6423
- Taylor, C.  
Harbour oscillation: A numerical treatment for undamped natural modes 7573
- Taylor, C. E.  
See Rowlands, R. E. 1942
- Taylor, C. F.  
The internal combustion engine in theory and practice: Vol. I, 2nd edition: Thermodynamics, fluid flow, performance 4774  
The internal-combustion engine in theory and practice: Vol. II, Combustion, fuels, materials, design 4775
- Taylor, G. A.  
MAMA: A semi-automatic technique for exciting the principal modes of vibration of complex structures 2693
- Taylor, G. D.  
See Moursund, D. G. 2480
- Taylor, J. E.  
Optimal design of structural systems: An energy formulation 9576
- Taylor, J. H.  
Stability regions for the damped Mathieu equation 7620
- Taylor, J. J.  
A minimum-energy mission plan for the manned exploration of Mars 8308
- Taylor, L. S.  
See Thompson, L. L. 3823
- Taylor, P. A.  
On planetary boundary-layer flow under conditions of neutral thermal stability 2420  
The planetary boundary layer above a change in surface roughness 9978
- Taylor, P. J.  
The stability of boundary conditions in the numerical solution of the time-dependent Navier-Stokes equations 5499  
A generalization of systematic relaxation methods for consistently ordered matrices 7640
- Taylor, P. R.  
Cable stayed bridges and their potential in Canada 3608
- Taylor, R. W.  
See Morgan, J. P. 1519
- Taylor, T. D.  
Supersonic flow past a finite cone with large surface mass injection 2093
- See also Masson, B. S. 1198
- Taylor, T. E.  
Shakedown loads for pressure vessels of strain hardening materials 4494  
High temperature testing of pressure vessels 8748  
See also Burdekin, F. M. 4393
- Tazhibayev, S. D.  
Cage materials for nonlubricated ball bearings 9206
- Tchalenko, J. S.  
See Ambraseys, N. N. 7565
- Tchao, J.  
See Pao, Y.-P. 7274
- Teich, M. C.  
See Ippolito, S. J. 6984
- Teipel, I.  
The gust problem in the case of Mach 1 3698  
Nonstationary, laminar boundary layers on a curved surface 7311
- Teixeira, D. P.  
See Sawyer, R. F. 9049
- Telenin, G. F.  
Unsteady supersonic flow around blunt bodies with detached shock wave 7261
- Teliyants, V. N.  
See Almazov, A. B. 3439
- Temam, R.  
On an approximate solution of the Navier-Stokes equations by the method of fractional steps: Part 1 3679  
Treatment of a nonlinear problem 8937
- Temkin, S.  
Attenuation of guided, weak sawtooth waves 652  
Propagating and standing sawtooth waves 8317
- Temlyakov, Yu. N.  
Determination of the parameters of the stabilizing flap of a tailless glider 8931
- Tempea, I.  
See Roban, I. 4504
- Tenerelli, D. J.  
An experimental study of the local buckling of ring-stiffened cylinders subject to axial compression 6068  
See also Horton, W. H. 9417
- Teng, L.  
Optimum control for lunar soft landing 71
- Teng, T.-L.  
Inversion of the spherical layer-matrix 6998
- Tennekes, H.  
The eddy viscosity of turbulent equilibrium layers 6371
- Tennyson, R. C.  
Buckling of axisymmetric imperfect circular cylindrical shells under axial compression 3428
- Teodorescu, P. P.  
On two-dimensional problems of the theory of elasticity 5978

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Teodorescu, R. R.  
Closely related problems of the three-dimensional theory of elasticity 3353
- Teodosiu, C.  
See Dinca, F. 5207
- Terada, K.  
On the determination of pressure increase in engine cylinder 3918  
A new method of measuring instantaneous values of the rate of pressure rise in an engine cylinder 4789
- Terao, K.  
Ionization in detonation waves 4857
- Terazawa, K.  
Mechanism of brittle fracture in welded wide plate 4391
- Terekhin, G. S.  
See Kolesnichenko, L. F. 2433
- Terentev, A. G.  
Flow through a cascade of flat plates with developed cavitation 8961
- Terentev, E. D.  
See Ryzhov, O. S. 8877
- Terentev, V. F.  
Concerning the nature of the physical yield point and brittle fracture 7899  
Model of physical fatigue limit of metals and alloys 9540
- Terentev, Yu. N.  
See Eroshenko, V. M. 9025
- Terentyev, Yu. N.  
See Yeroshenko, V. M. 3021
- Teriiska, B. M.  
See Leyarovski, E. I. 6874
- Ter-Krikorov, A. M.  
On the asymptotic character of the motion of a conservative system acted on by an aperiodic perturbing force 9424
- Terpigoryev, V. S.  
See Belov, I. A. 7428
- Terrill, R. M.  
On laminar flow through a uniformly porous pipe 7222
- Tesar, D.  
The generalized concept of five multiply separated positions in coplanar motion 2827  
See also Eschenbach, P. W. 1139
- Testa, R. B.  
See Boley, B. A. 4904  
Spillers, W. R. 8764
- Teter, L. A.  
See Eisenberg, A. 7719
- Teterin, M. P.  
Investigation of the hypersonic flow over a cylinder in the region of incidence of a shock-wave 8069
- Teterin, P. K.  
Use of the hot-torsion method to assess the quality of pipe billets 4908
- Teters, G. A.  
Creep strength of anisotropic plates taking account of transverse shear strains 186  
Creep stability of orthotropic shells with allowance for transverse shear strains 1817  
Deformation properties of polymers 2595  
Slozhnoe nagruzhenie i ustoychivost obolochek iz polimernykh materialov (Complex stresses and stability of shells made of polymeric materials) 5154
- Tetervin, N.  
Approximate calculation of Reynolds analogy for turbulent boundary layer with pressure gradient 1227
- Teutonico, L. J.  
Reaction paths and activation energies for dislocation unpinning 5818
- Teverovskii, B. M.  
Effect of surface roughness on the vibration of a cylinder in hydrodynamic conditions 8951
- Texier, J.  
See Bazile, A. 4246
- Tham, M. J.  
See Gubbins, K. E. 9778
- t'Hart, H. H.  
See Van der Linden, C. A. M. 2695
- Thau, S. A.  
Subsurface characteristics of the Rayleigh wave 2723  
Dynamic stress concentration at a cylindrical inclusion in an elastic medium with an arbitrarily stiff bond 7847  
On the derivation of point source responses from line source solutions 8645
- Theimer, O. F.  
Failures of reinforced concrete grain silos 7137
- Theiss, J. B.  
See Battan, L. J. 9988
- Theocaris, P. S.  
Visualization of nodes and antinodes in vibrating plates 1837  
Interrelation between dynamic moduli and compliances in polymers 4241  
Photoelastic analysis of shrinkage microcracking in concrete 4427  
Transient creep behavior of cross-linked polymers in bulk deformation 9347
- Theodorescu, R.  
See Postelnicu, T. 776
- Thermann, K.  
See Bruhns, O. 7755
- Thew, M. T.  
Use of large plastic beads to follow slow flow of water in a 7-ft diameter vessel 1169
- Thill, R. E.  
Correlation of longitudinal velocity variation with rock fabric 4919
- Thirriot, C.  
The reducing of the front of surges caused by cutting the discharge in prismatic channels with trapezoidal or random cross section 5457  
Approximate analytic integration of the equation of gradually varying flows, with free surface 5458  
See also Aribert, J. -M. 3183  
Aribert, J. -M. 6691
- Thiruvengadam, A.  
On modeling cavitation damage 4549
- Thomas, C. L.  
See Pierce, A. D. 6627
- Thomas, D.  
Deep sounding test results and the settlement of spread footings on normally consolidated sands 261
- Thomas, D. H.  
Biomechanical considerations of lumbrical behavior in the human finger 754
- Thomas, D. L.  
Continuum theory of cooled spherical electrostatic probes 2313
- Thomas, D. R.  
See Grundy, R. E. 8897
- Thomas, F.  
Determination of buffet boundaries of wings in transonic flow 2158
- Thomas, F. M.  
See Smith, F. A., Jr. 6875
- Thomas, H. S. H.  
The design, construction and performance of a vibrating-wire earth pressure cell 3505
- Thomas, J.  
See Carnegie, W. 9436
- Thomas, J. M.  
A finite element approach to the structural instability of beam columns, frames, and arches 6918  
Method for calculating rocket engine structural loads 7149
- Thomas, K.  
See Schimke, J. 5084
- Thomas, N. H.  
See Stevenson, T. N. 2933
- Thomas, P. D.  
Flow over a finite plate with massive injection 1391
- Thomas, P. W.  
See Terrill, R. M. 7222
- Thomas, R. L.  
See Halpin, J. C. 5997
- Thomas, T. Y.  
Mathematical foundations of the theory of shocks in gases 2882  
Fracture of brittle solids by applied loads 6183  
Fatigue fracture of brittle solids 6192
- Thomason, P. F.  
An analysis of necking in axisymmetric tension specimens 889
- Thomee, V.  
Stability theory for partial difference operators 1633
- Thomer, G.  
See Vollrath, K. 2184
- Thommen, H. U.  
Calculation of high Reynolds number flow fields by numerical methods 5500

- Thompson, B. G. J.  
An experimental investigation into the behavior of the turbulent boundary layer with distributed suction in regions of adverse pressure gradient 8108
- Thompson, B. W.  
See Stewartson, K. 7236
- Thompson, D. A.  
See Leslie, J. M. 7610
- Thompson, D. M.  
Scaling laws for continuous flow sedimentation in rectangular tanks 2847
- Thompson, J. C.  
See Bowen, D. E. 4029
- Thompson, J. G.  
Modeling and compensation of nonlinear systems using sensitivity analysis 6787
- Thompson, J. M. T.  
Basic theorems of elastic stability  
Comparative perturbation studies of the elastica 8577
- Thompson, J. P.  
The derivation of power spectra of density variations in hypersonic wakes from schlieren photographs 8581
- Thompson, L. L.  
Analysis of turbulence by schlieren photography 3706
- Thompson, M. S.  
The selection of optimum steam-curing regimes for large concrete components 3823
- Thompson, P. J.  
An apparent strain analysis of orthogonal cutting 3593
- Thompson, R. A.  
The modulation of chatter vibrations 3528
- Thompson, W. B.  
See Simon, A. 1853
- Thomsen, E. G.  
See Jovane, F. 5741
- Shabaik, A. H. 6561
- Negroni, F. 3521
- Thomson, G. J.  
The design and development of hovercraft machinery 4377
- Thomson, G. R.  
Model experiments with stern variations of a 0.65 block coefficient form 5115
- Thomson, J. C.  
Monitoring mandibular posture 740
- Thomson, K. C.  
Dynamic photoelastic studies of  $P$  and  $S$  wave propagation in pre-stressed media 5858
- Thomson, R. G.  
An analytical evaluation of the denting of airplane surfaces by hail 10027
- Thomson, W. T.  
See Pestel, E. C. 9543
- Collins, J. D. 2731
- Thorley, A. R. D.  
Pressure transients in hydraulic pipelines 4649
- Thornley, R. H.  
See Connolly, R. 1148
- Thornton, A. R. D.  
Masking and integration of energy 6632
- Thorp, J. S.  
Exponential approximation with piecewise linear error criteria 12
- Thorpe, S. A.  
Neutral eigensolutions of the stability equation for stratified shear flow 3741
- The effect of horizontal gradients on thermohaline convection 4728
- Experiments on the instability of stratified shear flows: Immiscible fluids 8873
- Thrun, Z.  
The method of subregions in coupled thermoelasticity 8324
- Thuillet, A.  
See Rabbe, P. 1096
- Thurston, G. A.  
Continuation of Newton's method through bifurcation points 3418
- Thurston, R. C. A.  
See Eeles, E. G. 1088
- Thurston, R. N.  
Definition of a linear medium for one-dimensional longitudinal motion 1860
- Tiao, G. C.  
See Box, G. E. P. 9241
- Tichy, M.  
Simplification of design formulas 4477
- Tickner, E. G.  
Slow flow of rigid particle suspensions through simulated stenoses 10021
- See also Sacks, A. H. 4987
- Tien, C.  
An approximate solution for counter-current heat exchangers 1374
- Thermal instability of a horizontal layer of non-Newtonian fluid heated from below 6495
- Laminar natural convection heat transfer in Ellis fluids 7431
- See also Garbarini, G. R. 3901
- Tien, C. L.  
On a simple correlation for total band absorptance of radiating gases 8214
- Tien, R. H.  
Thermal stresses during solidification on basis of elastic model 4903
- Tietjen, G.  
See Rogers, J. D. 5485
- Tikekar, V. G.  
Plane Couette flow with suction or injection and heat transfer for Rivlin-Ericksen fluid 2042
- Tillman, S. C.  
On the buckling behavior of shallow spherical caps under a uniform pressure load 8594
- Tillotson, T. C.  
Simulation with the fast Fourier transform 8454
- Tilly, G. P.  
See Sage, W. 3229
- Timan, B. L.  
See Komar, V. K. 6643
- Timar, A.  
Effect of the application of berms on the stability of slopes 8683
- Timerbulatov, M. G.  
Improving the cavitation resistance test method for metals as applied to hydroturbines 8954
- Timmerman, D. H.  
Behavior of dry sands under cyclic loading 6128
- Timofeev, E. I.  
Indestructibility criteria for calculating reliability 2473
- Timofeev, S. V.  
Analysis of a fixed grid beam under a panel 6150
- Timoshenko, S.  
Elements of strength of materials: 5th edition 143
- Timoshuk, L. T.  
See Kononov, L. V. 3547
- Teterin, P. K. 4908
- Timrot, D. L.  
The effect of additives on critical phenomena in  $\text{CO}_2$  2202
- Study of the viscosity of gases using the oscillating disk method 8980
- Ting, E. C.  
Stress analysis for linear viscoelastic cylinders 6859
- Ting, L.  
A note on the mixing of two parallel subsonic streams 8914
- Ting, T. C. T.  
Plane waves due to combined compressive and shear stresses in a half space 1871
- Interaction of shock waves due to combined two shear loadings 1876
- On the initial slope of elastic-plastic boundaries in combined longitudinal and torsional wave propagation 3488
- Wave-front analysis in composite materials 4331
- Elastic-plastic boundaries in the propagation of plane and cylindrical waves of combined stress 7851
- Simple waves in an extensible string 7853
- Ting, T. W.  
Upper and lower bounds of the radii of gyration of convex bodies: Part 2 2550
- Elastic-plastic torsion of convex cylindrical bars 8535
- Elastic-plastic torsion problem: Part 3 8536
- Tinkler, J.  
Slush and water hazards on runways 8682
- Tinling, B. E.  
Estimation and prediction of the attitude of a passive gravity-stabilized satellite 7513

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Tipper, C. F. H.  
See Burge, S. J. 8238
- Tir, L. L.  
See Dragunkina, N. I. 3076
- Tirskii, G. A.  
Calculating the effective diffusion coefficients in a laminar dissociated multicomponent boundary layer 7310
- Tirunarayanan, M. A.  
See Srichand, M. 8167  
Nagendra, H. R. 9799
- Tischler, V. A.  
See Purdy, D. M. 944
- Tisdale, D. E.  
Developing a unique gas seal for pressure vessels 4514
- Tittle, R. L.  
See Anderson, M. W. 1478
- Tiwari, G. R.  
Couple-stresses in symmetrically loaded semi-infinite plate 1763
- Tiwari, S. N.  
See Cess, R. D. 556
- Tkachenko, N. Ye.  
Formulation of the generalized Lagrangian 9315
- Tkachenko, Yu. G.  
See Artamonov, A. Ya. 2443
- Tobias, L.  
Lyapunov stability criteria for randomly sampled systems 3323
- Tobias, S. A.  
See Sweeney, G. 4310
- Tobio, J. M.  
Portable ultrasonic measuring instrument 8319
- Toborov, T. T.  
See Milchev, V. A. 8190
- Tochilin, E. L.  
The concentration of stress in elastic disks weakened by openings 842
- Tochtermann, W.  
Konstruktionselemente des Maschinenbaues: Entwerfen, Gestalten, Berechnen, Anwendungen: Achte neubearbeitete Auflage, Erster Teil (Design elements in machine design: Layout, design, computation and applications: 8th revised edition, Part 1) 6275  
Konstruktionselemente des Maschinenbaues: Entwerfen, Gestalten, Berechnen, Anwendungen: Achte neubearbeitete Auflage, Zweiter Teil (Machine elements in mechanical design: Layout design, computation and applications: 8th revised edition, Part 2) 7988
- Toda, K.  
See Roffman, G. L. 9129
- Todd, A. C.  
See Scarlett, B. 252
- Todd, C. A.  
A FORTRAN IV program to estimate the off-design performance of radial-inflow turbines 4664
- Todd, K. L.  
Noise and process control 5027
- Todes, O. M.  
Mathematical description of solid-phase entrainment during fluidization in steady and unsteady conditions 1521
- Todo, I.  
Dynamic response of parallel-flow and counter-flow heat exchangers to the change of flow rate 4752
- Togo, T.  
See Washio, K. 345
- Tokarev, V. V.  
See Grodzovskii, G. L. 7514
- Tokareva, O. N.  
Question of the electronic simulation of the longitudinal oscillations of rods and flexural-longitudinal oscillations of frames 4164  
Simulating problems of the dynamics of rod systems by the resonance method 8607
- Tokarz, F.  
See Ojalvo, M. 7786
- Tokioka, T.  
See Yanai, M. 4070
- Toksoz, M. N.  
See Thomson, K. C. 9543
- Tokuda, M.  
See Muro, H. 5317
- Tokuda, N.  
On the impulsive motion of a flat plate in a viscous fluid 4577  
Dynamics of moving gas bubbles in injection cooling 7455
- Tokuhiro, I.  
See Tomii, M. 5417  
Tomii, M. 5418
- Tokumaru, H.  
On the controllability of nonlinear control systems 5924
- Tokuoka, T.  
Relations between stress and ultrasonic velocity in deformed crystals 6113  
Optical properties of polarizable linear micropolar fluids 8824  
See also Hudimoto, B. 3666
- Tolke, F.  
Praktische Funktionenlehre: Erster Band, Elementare und elementare transzendente Funktionen; Zweite Auflage (Applied function theory: Vol. 1, Elementary and fundamental transcendental functions) 9248  
Praktische Funktionenlehre: Vierter Band, Elliptische Integralgruppen und Jacobische elliptische Funktionen im Komplexen (Applied function theory: Vol. 4, Integrals of products of elliptic functions and Jacobian elliptic functions in the complex plane) 9249  
Praktische Funktionenlehre: Funfter Band (Applied function theory: Vol. 5, General Weierstrass functions and derivatives with respect to parameters—integrals of theta functions and bilinear expansion) 9250  
Praktische Funktionenlehre: Sechster Band, Tafeln aus dem Gebiet der Theta-Funktionen und der elliptischen Funktionen; Erster Teil und Zweiter Teil (Applied function theory: Vol. 6, Tables in the area of theta-functions and elliptical functions; Parts 1 and 2) 9251
- Tolle, H.  
Escape and orbiting trajectories with special consideration of orbit calculations for Jupiter and Sun probes 7523  
See also Regenber, S. 626
- Tolmachev, V. V.  
See Golovin, A. M. 5836  
Morolev, Yu. R. 6469
- Tolok, V. T.  
See Zykov, V. G. 1437
- Toma, V.  
See Savulescu, St. N. 9702
- Tomanec, L.  
Improvement of the sensitivity of pressure transducers 2776
- Tomas, J.  
The synthesis of mechanisms as a nonlinear programming problem 1133
- Tomashevskii, V. T.  
Axisymmetric deformation of a thick circular glass-reinforced plastic cylinder with stiffening ribs 1783  
A method of investigation of stability of anisotropic circular cylinders for arbitrary boundary conditions 3411
- Tomeczek, J.  
Effect of temperature variability of fluids on the heat transmitted in a regenerative heat exchanger 3014
- Tomfeld, Yu. L.  
Fixation of discrete states 810
- Tomii, M.  
Elastic analysis of shear walls loaded antisymmetrically with regard to their longitudinal and transversal center lines: Part 1, Airy's stress function, stresses, displacements, etc. 5417  
Elastic analysis of shear walls loaded antisymmetrically with regard to their longitudinal and transversal center lines: Part 2, Equations for conditions which are necessary to define the unknown coefficients, and numerical results of an example 5418
- Tomilov, V. E.  
Kinetic analogy 31
- Tomilova, A. A.  
See Ziman, Ya. L. 6614
- Tomkins, B.  
Low endurance fatigue in metals and polymers: Part 1, Stress/strain relationships; Part 2, Fatigue damage; Part 3, The mechanism of failure 5336
- Tomlan, P. F.  
Transient response of countercurrent heat exchangers with short contact time 3006
- Tompkins, S. S.  
Simulation in ground-test facilities of ablation performance of charring ablators during atmospheric entry 5698

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Tong, L. S.  
See Larsen, P. S. 9014  
Coffield, R. D., Jr. 9828
- Tong, P.  
A variational principle and the convergence of a finite-element method based on assumed stress distribution 2576  
See also Barden, L. 7870  
Pian, T. H. H. 9565
- Tonndorf, J.  
Submicroscopic displacement amplitudes of the tympanic membrane (cat) measured by a laser interferometer 1584
- Tonoyan, V. S.  
The contact problem for the infinite strip with two part contacts 9341
- Toomre, A.  
See Aldridge, K. D. 2932
- Toor, J. S.  
Radiant heat transfer between simply arranged surfaces with direction dependent properties 9815
- Toporov, G. V.  
See Levandovskii, M. Ya. 8744
- Topper, T. H.  
See Gowda, C. V. B. 5351  
Havard, D. G. 7091
- Toppler, J. F.  
Horizontally-curved members: An approximate method of design 2807
- Toprac, A. A.  
Fatigue strength of hybrid plate girders 9531  
See also Lew, H. S. 1994
- Torda, T. P.  
Investigations of flow in triangular cavities 9839  
See also Ghia, K. N. 4571
- Toridis, T. G.  
Stress analysis of the femur 1582
- Torii, T.  
See Hayashi, K. 3540
- Turner, R. V.  
Volume flow-rate in a plane convergent forced flow of an incompressible non-Newtonian liquid 389  
Steady plane-parallel flow of an anomalously viscous fluid between parallel plates 2044
- Torrance, K. E.  
Comparison of finite-difference computations of natural convection 1333  
Theoretical polarization of off-specular reflection peaks 2254
- Totaro, C.  
The problem of the generalized regular elliptic precession motions of an asymmetrical rigid body 8495
- Toth, T.  
Experimental determination of the optimum re-sharpening number in case of a crater-type tool wear 5869
- Totomanov, I. N.  
Determination of the stress-tensor in an elastic isotropic half-space for the case of a uniform load 3351
- Tottenham, H.  
See Newton, D. A. 932
- Tou, J. T.  
Advances in information systems science: Vol. 1 4155
- Touloukian, Y. S.  
Thermophysical properties of high temperature solid materials: Vol. 3, Ferrous alloys 1312
- Tournemine, G.  
On a scheme of three-dimensional sonic flow downstream of a shock wave in perfect fluid 440  
Asymptotic behavior of the sonic flow past a body of revolution of finite dimensions, downstream of the shock wave 9653
- Tournois, P.  
Use of dispersive delay lines for signal processing in underwater acoustics 7539
- Touryan, K. J.  
See Saric, W. S. 3054
- Townes, H. W.  
Flow rates from pressure drop measurements 5611
- Townsend, D. P.  
See Dietrich, M. W. 2438
- Townsend, N. A.  
See Shohet, K. N. 7890
- Toyokura, T.  
Studies on back-flow mechanism of turbomachines: Part 2, Back-flow to the suction side of mixed-flow impeller blades 4675
- Tozuka, G.  
On some problems in stress analysis of reinforced concrete beams by photoelasticity 3564
- Tracey, D. M.  
See Rice, J. R. 6186
- Trad, A.  
Dissipation and dispersion phenomena in nonlinear waves: Study of a mathematic model 2166
- Trahair, N. S.  
Deformations of geometrically imperfect beams 2615  
Elastic stability of continuous beams 5190  
Interaction buckling of narrow rectangular continuous beams 6923  
See also Brown, P. T. 3271
- Trakhtengerts, E. A.  
See Itskovich, E. L. 5042
- Trakhtengerts, M. S.  
See Vukalovich, M. P. 4709
- Traktueva, S. A.  
See Timrot, D. L. 8980
- Tran, N. -N.  
Study of a flow in magnetohydrodynamic channels 592
- Trass, O.  
See Weiland, R. H. 9694
- Traugott, S. C.  
An improved differential approximation for radiative transfer with spherical symmetry 2991
- Travkin, Yu. I.  
An axially-symmetric displacement problem of the torsion of an elastic cylinder 5159  
The distribution of temperature in a cylinder involving sources of heat and mixed boundary layers 5648
- Travkina, T. N.  
See Travkin, Yu. I. 5648
- Travnicek, E. A.  
A modified micro-interferometric technique for measurement of diffusion coefficients of liquids 1298
- Trawle, M.  
See Plate, E. 9981
- Trehub, A.  
A Markov model for modulation periods in brain output 1590
- Tremills, J. A.  
The feasible depth of underwater towed systems 4080
- Trenogin, V. A.  
See Srubshchik, L. S. 2659
- Tretyachenko, G. N.  
Device for testing materials under thermal and mechanical cyclic loads 8334  
See also Kuriat, R. I. 8321
- Treybal, R. E.  
See Schindler, H. D. 7457
- Tribus, M.  
Rational descriptions, decisions and designs 9244
- Trick, T. N.  
See Bourquin, J. J. 2504
- Triebes, K. J.  
See Whymark, R. R. 1499
- Triebstein, H.  
Unsteady pressure distribution measurements on a harmonically oscillating wing in the subsonic and transonic speed range 7262
- Triger, S. A.  
See Klyuchnikov, N. I. 9871
- Trigo, J. T.  
See Marecos, J. 348
- Trimmer, L. L.  
Stagnation-point velocity gradients for spherical segments in hyper-sonic flow 3704
- Trinh, L. P.  
On the theory of nonstationary wind-driven currents in a deep homogeneous ocean 1540
- Tripathi, G.  
Studies on the mechanism of fluidization in liquid fluidized beds 4040
- Tripathi, S.  
See Mangaraj, D. 8407
- Troitskii, E. A.  
Crack resistance of webs of pre-stressed beams when resisting a lateral force under repeated loads 4416
- Troke, R. W.  
Free oscillations of acoustical resonators and pressure effects on damping and amplification 7531

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Trokhon, A. M.  
Measurement of the speed of gas and plasma flows 6594  
See also Derevyanko, N. F. 4685
- Trollope, D. H.  
See Brown, E. T. 8695
- Trombski, M.  
Vibration of an orthotropic circular plate with variable rigidity 204
- Troost, A.  
Generalized theory of plasticity for plane deformations 5105
- Tropp, Z. A.  
Influence of the magnetic field on the flow in the neighborhood of the stagnation point of a blunt body during ablation of an electrically conductive protective layer 5751
- Tropper, A. M.  
An introduction to linear algebra 761
- Troshchenko, V. T.  
Method of investigating thermocyclic strength of refractory metals and alloys 687  
Device for studying the endurance of refractory alloys in the case of programmed variation of temperature and load 688  
See also Pisarenko, G. S. 686  
Sidnev, V. I. 1108
- Trost, H.  
On the calculation of composite concrete steel girders in use based on recent knowledge of the viscoelastic behavior of concrete 2793  
Application of the principle of superposition to creep and relaxation problems of concrete and reinforced concrete 3370  
Application of the principle of superposition to creep and relaxation problems of concrete and reinforced concrete 3371
- Trout, A. M.  
See Marchionna, N. R. 5715
- Trout, D.  
Energy dissipation near the tropopause 4076
- Trubnikov, B. A.  
See Kosachev, V. V. 3957
- Trubnikov, B. N.  
See Zhukova, L. P. 728
- Truckenbrodt, E.  
Stromungsmechanik: Grundlagen und technische Anwendungen (Fluid mechanics: Fundamentals and technical applications) 5501  
See also Schlichting, H. 2915
- Truesdell, C.  
Thermodynamics of deformation 676  
Essays in the history of mechanics 760
- Trushechkin, V. P.  
See Molchanov, E. I. 4439  
Molchanov, E. I. 4782
- Trushel, P. J.  
See Birta, L. G. 5040
- Trushin, S. I.  
See Lavrovskii, E. K. 2350
- Trusova, O. N.  
See Bazzhin, A. P. 430
- Trutwin, W.  
See Kraj, W. 8345
- Tsai, C.-P.  
See Ling, C.-B. 1714  
Ling, C.-B. 3357
- Tsai, C. S.  
Scattering of acoustic waves from a moving elastic nonlinearity 2371
- Tsai, F. Y.  
See Bowers, C. E. 8831
- Tsai, N. C.  
Transformation of time axes of accelerograms 3630
- Tsai, P. F.  
See Nemat-Nasser, S. 2665
- Tsai, P. J.  
See DeSilva, C. N. 8525
- Tsai, S. C.  
See Nikiforuk, P. N. 4186
- Tsai, W. T.  
See Huang, N. C. 1799
- Tsai, Y.-B.  
Simultaneous determination of the seismic moment and attenuation of seismic surface waves 710
- Tsai, Y. M.  
Stress distributions in elastic and viscoelastic plates subjected to symmetrical rigid indentations 5076  
Thickness dependence of the indentation hardness of glass plates 7097  
See also Nariboli, G. A. 8650
- Tsamkirani-Georganopoulou, A.  
Helically symmetric stresses in thin cylindrical shells 9382
- Tsang, G.  
Motion of two-dimensional starting plume 1170
- Tsao, K. C.  
Cutting tool crater wear measurement by the lapping-comparator technique 6176  
See also Wang, K. K. 6173
- Tsao, S.  
Numerical solutions of transients in pneumatic networks: Part 2, Nonlinear termination problems 8945  
Numerical solutions of transients in pneumatic networks: Part 3, Network problems with branching 8946
- Tschann, C.  
See Modi, V. J. 9908
- Tschauner, J.  
Optimal rendezvous maneuvers for elliptic orbits 8307
- Tschernernegg, F.  
Contribution to the design of bridges, especially suspension bridges, on the basis of aerodynamic considerations 3612
- Tscheslog, W.  
Wind-tunnel tests of waffle-plate floor 4499
- Tschiegg, C. E.  
See Greenspan, M. 9138
- Tschinke, M.  
An inexpensive ultra-high-speed photographic technique 7083
- Tse, F. S.  
See Comstock, T. R. 8624
- Tseitlin, A. A.  
Calculation of long shallow shells under the action of unsymmetrical loading 4259
- Tseitlin, I. Z.  
See Chizhik, A. A. 4243
- Tseitlina, S. D.  
See Vilner, P. D. 8609
- Tsendin, L. D.  
Two-temperature hydrodynamics for gas mixtures with a large difference of component masses 8895
- Tseng, S.-F.  
See Rand, R. H. 977  
Rand, R. H. 1857
- Tsepilovich, V. G.  
Generalization of the solutions of F. I. Frankl for transonic gas flows 3700  
Questions of the transition to Sedov variables in magnetohydrodynamics 8264
- Tsertsvadze, G. N.  
Asymptotic properties of purposeful automata in a stationary random medium 5961
- Tsibarov, V. A.  
Boundary layer in a slightly rarefied gas 8099
- Tsiklauri, G. V.  
See Seleznev, L. I. 2198  
Kozlov, V. B. 9001
- Tsinober, A. B.  
Possibility of increasing the flow stability in a boundary layer by means of crossed electric and magnetic fields 9067
- Tsirulnikov, L. M.  
True values of viscosity and temperature of oil before atomization 9037
- Tsirulskiy, A. V.  
Uniqueness of the solution to the inverse problem of potential theory 5902
- Tsitovich, O. B.  
See Todes, O. M. 1521
- Tsivilin, K. S.  
Matrix method for analysis of space frames composed of thin-wall members 6246
- Tso, W. K.  
See Ghobarah, A. A. 1793
- Tsodokova, N. S.  
Stability of steady helical motions of a rigid body in a fluid 7349
- Tsoi, P. I.  
Radiation of a cylinder in a viscous medium 9926
- Tsoi, P. V.  
On a problem for a system of differential equations of energy and mass transfer 1343

- Tsoutrelis, C. E.  
Determination of the compressive strength of rock in situ or in test blocks using a diamond drill 266
- Tsuboi, Y.  
Stress analysis of a hyperbolic paraboloidal shell supported at four corners 6899
- Tsueda, M.  
On toll wear in the intermittent cutting of reinforced plastics: Part 1, Wear behavior in dry cutting 3531
- Tsuei, H. S.  
See Tien, C.  
Tien, C. 6495  
7431
- Tsui, E. Y. W.  
Natural vibrations of cylindrical panels 2686
- Tsukerman, B. M.  
See Malinovskii, L. G. 1593
- Tsuwa, H.  
See Yoshida, A.  
Namba, Y. 1929  
6178
- Tsuya, Y.  
The anisotropy of the coefficient of friction and plastic deformation in copper single crystals 9198
- Tsuzuki, Y.  
See Iijima, K. 2714
- Tsybizov, Yu. I.  
Some singularities of the solution of Chaplygin's equation 2874
- Tsyganyuk, A. I.  
See Koelov, L. F. 7302
- Tsymarnyi, V. A.  
See Golovskii, E. A. 9774
- Tsyplukhin, V. F.  
See Krylov, Yu. M. 7577
- Tsytovich, N. A.  
The development of the theory of soil consolidation in the USSR: 1917-1967 4338
- Tu, P. K. C.  
See Sridhar, K. 9697
- Tuck, E. O.  
Unsteady flow of a viscous fluid from a source in a wall 9645  
See also von Kerczek, C. 6718
- Tucker, A. W.  
See Balinski, M. L. 8438
- Tucker, D. G.  
Distinguishing automatically the echoes from acoustically "hard" and "soft" objects with particular reference to the detection of fish 2365
- Tucker, D. H.  
Boundary value problems for linear differential systems 6752
- Tucker, W. K.  
See Patel, D. J. 8396
- Tuczek, F.  
Computing the damping requirement and damping characteristic for highly resilient vehicle suspensions 3472
- Tudor, D. H.  
See Allen, J. M. 3769
- Campbell, J. F.  
Stallings, R. L., Jr. 4581  
6344
- Tuel, W. G., Jr.  
An improved algorithm for the solution of discrete regulation problems 5045
- Tulin, M. P.  
See Martin, M. 3223
- Tulinov, V. F.  
Measurements of the intensity of corpuscular radiation in the upper atmosphere at different latitudes 4074
- Tullis, J. P.  
Needle valves as pressure regulators 5460
- Tumashev, Yu. S.  
Choice of optimum measuring parameters 1464
- Tung, C. C.  
Response of highway bridges to renewal traffic loads 1009  
Life expectancy of highway bridges to vehicle loads 4488
- Tuppeny, W. H., Jr.  
See Lawton, C. W. 7982
- Turchaninov, I. A.  
The effectiveness of the ultrasonic method of determining stress in a rock mass 6166
- Turchin, P. S.  
Solution of the differential equations of stability for prestresses thin-walled rods of open profile 8774
- Turilina, Ye. S.  
See Voskresenskiy, K. D. 6376
- Turitzin, A. M.  
Grain storage structures for food deficient areas 7140
- Turkdogan, E. T.  
See Wu, T.-S. 615
- Turner, A. B.  
See Bayley, F. J. 4781
- Turner, A. E.  
The use of damping materials for noise reduction on a passenger ship 7526
- Turner, J. S.  
See Baines, W. D. 7419
- Turner, J. T.  
A computational method for the flow through nonuniform gauzes: The general two-dimensional case 1176
- Turner, K. J.  
The dynamic stability derivatives of a slender wing: A comparison of theory with free-flight model tests at near-zero lift,  $M = 0.8$  to  $2.4$  5584
- Turner, L. J., Jr.  
See Clary, R. R. 9740
- Turner, M. C.  
An implantable valveless heart assist pump 1589
- Turner, M. J.  
Optimization of structures to satisfy flutter requirements 3972
- Turner, R. E.  
A method for solving hypervelocity impact problems with consideration of free-surface discontinuities 1050
- Turner, R. E. L.  
A problem in Rayleigh-Taylor instability 7334
- Turner, R. G.  
See Scrimger, J. A. 2380
- Turner, R. H.  
Some problems associated with the development of ball screw and ball nut grinding machines 3535
- Turney, G. E.  
Measurement of liquid and two-phase hydrogen densities with a capacitance density meter 515
- Turovich, A.  
See Goretski, Kh. 3313
- Turowicz, A.  
See Gorecki, H. 64  
Gorecki, H. 3339
- Turski, K.  
See Szczepinski, W. 2610  
Dietrich, L. 6844
- Tursunov, D. A.  
See Merkulov, L. G. 7858
- Tutov, S. F.  
Flexure of a thick sector plate with freely supported radial edges 8574
- Twardosz, F.  
See Szyz, W. 6065
- Tweed, J.  
The distribution of stress in the vicinity of a Griffith crack in an elastic solid in which body forces are acting 4220  
The distribution of stress in the vicinity of a penny-shaped crack in an elastic solid under the action of symmetric body forces 4221
- Twelvetees, W. N.  
The evolution of the rotor blade: A review of helicopter blade construction with a survey of possible future developments in this field 6601
- Tyavlovskii, M. D.  
See Konovalov, E. G. 7938
- Tykodi, R. J.  
See Erikson, T. A. 3000
- Tyldesley, J. R.  
Transport phenomena in free turbulent flows 6403
- Tylevich, I. N.  
Effect of residual stresses on the hardness of metals 4451
- Tylikowski, A.  
Nonstationary random temperature and stress field in an infinite bar 1505
- Tyumentseva, L. P.  
See Gorenshstein, I. V. 8312
- Tyuptsov, A. D.  
Hydrostatics in weak force fields 2168
- Tyurin, Yu. N.  
See Kuznetsov, G. M. 3176

## U

- Ubbelohde, A. R.  
See Munday, G. 7462
- Uberoi, M. S.  
Spectra of turbulence in wakes behind circular cylinders 2910  
Spectra of grid turbulence 5570
- Udoguchi, T.  
Notch effect in low cycle fatigue 7060
- Ueda, M.  
See Miyagawa, M. 5998
- Ueda, S.  
See Kataoka, T. 4537
- Ueda, Y.  
See Hayashi, C. 4143
- Ueno, K.  
Some experiments of pitching effects on ahead resistance of ships 9989  
Some experiments of heaving effects on ahead resistance of ships 9990
- Ueno, T.  
Failures of carbide tools in intermittent cutting 7894
- Ueyama, K.  
See Hatanaka, J. 6515  
Nishiki, T. 8047
- Ufer, H.  
Analysis of the velocity distribution at the blade tips of axial-flow fans 4672
- Ufliand, Ia. S.  
See Efimova, I. T. 9231
- Uflyand, Ya. S.  
Integralnye preobrazovaniya v zadachakh teorii uprugosti: Izdanie vtoroe (Integral transformations in problems of elastic theory: 2nd edition) 1698
- Ugodchikov, A. G.  
On the complex representation of the solution of the plane problem of thermoelasticity for physically nonlinear materials 5812
- Uhlig, H. H.  
See Lee, H. H. 5342
- Uhlmann, W.  
See Kloppel, K. 2801
- Uhrig, R.  
On the stress analysis of thin-walled shells using stiffness matrixes: Part 2, Structural system composed of cylindrical and conical shell segments stiffened by circular frames 1775
- Ukeguchi, N.  
Turbulent diffusion considering turbulent boundary layer 8121
- Ukolov, I. S.  
See Ageev, Zh. S. 5776
- Ukrainetz, P. R.  
See Nikiforuk, P. N. 4186
- Ulanov, I. M.  
See Baturin, V. A. 2250
- Ulbricht, J.  
Research on the lateral deflection of helical springs used for supporting locomotive frames 5429
- Uldrick, J. P.  
On the propulsion efficiency of swimming flexible hydrofoils of finite thickness 4084
- Ulinich, F. R.  
Statistical dynamics of a turbulent incompressible fluid 6374
- Ulinskas, R. V.  
See Shlanchyauskas, A. A. 9808
- Ulitko, A. F.  
The state of stress of a hollow sphere is subjected to concentrated forces 2567
- Ullrich, G.  
See Suva, S. 7661
- Ullschmied, J.  
See Kurilko, V. I. 6566
- Ulrich, R. D.  
Transient heat transfer in closed containers after gas injection 3022
- Ulrichs, J.  
See Campbell, M. J. 6162
- Ulyanov, R. A.  
Device for determining the Young's modulus of metals and alloys in the temperature range 4.2-300°K 6234
- Ulybin, S. A.  
See Kirillin, V. A. 8186
- Umamaheswaram, S.  
See Das, A. K. 3354
- Umemiya, H.  
See Katayama, K. 5827
- Umeya, K.  
On the internal friction of powdered materials 3173
- Underwood, J. H.  
Measurement of microscopic plastic-strain distributions in the region of a crack tip 4388
- Underwood, R. L.  
Calculation of incompressible flow past a circular cylinder at moderate Reynolds numbers 4563
- Ungar, E. E.  
See Shaffer, B. W. 914
- Unny, T. E., Jr.  
See Hill, H. M. 5463
- Urasek, D. C.  
See Soltis, R. F. 3804  
Soltis, R. F. 9743
- Urata, E.  
Thrust of poppet valve 7285  
See also Takenaka, T. 4547
- Urban, P.  
Noise analysis by synchronous filtration 651
- Urbaniec, K.  
The influence of collector temperature on the maximum efficiency of a thermionic converter in the series battery 7387
- Urdal, T. B.  
Bracing of continuous columns 3420
- Urkinbaev, R.  
The modeling of continuous spurs 8834
- Urtiew, P. A.  
Reflected shock-velocity-particle-velocity relationship in solids 7003
- Urushidani, H.  
See Akamatsu, T. 4617
- Ury, J. F.  
Numerical computation of second-order system response with variable parameters 2670
- Ushkalov, V. F.  
See Lazaryan, V. A. 8622
- Uskov, E. I.  
See Troshchenko, V. T. 687
- Usmani, R. A.  
See Fischer, C. F. 2460
- Usmanov, Kh. G.  
Calculating a centrifugal controller 5940
- Ustimenko, B. P.  
Turbulent flow structure in a cyclone chamber 1406
- Ustimenko, L. Yu.  
See Golodnyak, V. A. 3064
- Ustinenko, V. L.  
Bending stresses in modified gear teeth 4510
- Ustinov, M. D.  
Motion of piston subjected to gas pressure 6364  
Some one-dimensional flows of an ideal gas, which contains shock waves 9665
- Utkin, V. I.  
Control of the forced motion of an object with variable parameters in a second-order system 8465  
See also Bakakin, A. V. 3320  
Bakakin, A. V. 3321
- Utku, S.  
Explicit expressions for triangular torus element stiffness matrix 2783
- Uzkan, T.  
A shear-free turbulent boundary layer 2897
- Uzsoy, S. Z.  
Damage to reinforced concrete buildings caused by the July 22, 1967, earthquake in Turkey 3626  
Verification of calculations for shells of revolution of arbitrary form subject to arbitrary loading 4256
- Uzzell, B. R.  
See Kelley, H. J. 1462

## V

- Vacca, M. T.  
Magnetohydrodynamic waves in a circular cylinder of finite length 6549
- Vachon, R. I.  
Evaluation of constants for the Rohsenow pool-boiling correlation 1364  
See also Cheng, S. C. 538  
Cheng, S. C. 5640
- Vacroux, A. G.  
See Banas, J. F. 3338
- Vadasz, D.  
See Toth, T. 5869

- Vager, B. G.  
Structure of turbulent flow in a tube 2137  
The dynamics of the turbulent boundary layer in a tidal current 4063  
Turbulence in a shallow body of water 7571
- Vahidi, B.  
Thermal buckling of shallow bi-metallic two-hinged arches 5824  
See also Huang, N. C. 3425
- Vaicum, Al.  
Fundatii incastrate (Clamped-in foundations) 7026
- Vainer, E. L.  
Residual stresses in drawn tubes for tubular parts of medical instruments: Part 2, Analysis of axial elastoplastic tension and expansion of tubes with residual stresses in them 6745
- Vainkof, Ya. F.  
Stability of the motion of a body on a vibrating platform 1823
- Vairogs, J.  
See Edmister, W. C. 6472
- Vaisburd, I. M.  
Determining the natural vibration frequencies of shafts 5223
- Vaish, R. K.  
Exact analysis of multiple and compound cylindrical shells 5169
- Vakhitov, M. B.  
Calculation of the bending of rods of variable cross section under arbitrary transverse and axial loads using the EVM 152
- Vakhomchik, V. P.  
General expressions for unsteady forces in a lattice of profiles 9741
- Vakhranov, Y. P.  
See Denisov, Yu. A. 6237
- Vakhrushev, A. I.  
See Panferov, K. V. 3573
- Valayer, J.  
See Biarez, J. 4351
- Valdez, M. E.  
See Eyman, E. D. 1641
- Valdmanis, Ya. Ya.  
Fringe effect in a linear MHD induction machine 6591  
Structure of the magnetic field in the working gap of a linear MHD machine for an arbitrary number of poles and a magnetic circuit of finite length 9886
- Valensi, J.  
Effect of incidence and Reynolds number on hypersonic flow past a circular cone 8067
- Valentin, R. A.  
Transient thermal stresses associated with sudden initiation of internal heat generation in an axial segment of a circular cylinder 5816
- Valentinuzzi, M. E.  
A simple mathematical derivation of the Stewart-Hamilton formula for the determination of cardiac output 10018
- Valeshkevich, I. N.  
See Brish, N. I. 766
- Valgora, M. E.  
Steady-state electrical performance of a 400-hertz Brayton cycle turboalternator and controls 3995
- Valid, R.  
A computation of structures in the plastic range and under isothermal creep 1976
- Valiev, Sh. M.  
Transition of an inertial system from one state of motion to another 3346
- Valishvili, N. V.  
An algorithm of the solution of non-linear boundary value problems 8425  
Calculating shells with tapered walls 8563
- Valkov, Yu. A.  
Application of the concept of technical stability to the problem of longitudinal motion of an aircraft in a turbulent atmosphere 2156
- Valliappan, S.  
See Zienkiewicz, O. C. 5104
- Valov, G. M.  
Infinite elastic layer and half-space under the action of a ring-shaped die 2581
- Valuev, V. N.  
Comparison of the properties of transducers made from different magnetostrictive materials 9141
- van Atta, C. W.  
Measurements of spectral energy transfer in grid turbulence 3756
- van Bladel, J.  
Low-frequency scattering through an aperture in a soft screen 2370
- van Bommel, P.  
Practical application of the finite element method: Some numerical aspects 5378
- van Campen, D. H.  
On the stress distribution in an arbitrarily loaded nozzle-to-flat plate connection 9383
- Vance, G. P.  
Model testing in ice 735
- Van Dalen, K.  
See Johnson, R. P. 4478
- van de Kreeke, J.  
Damage function of rubble-mound breakwaters 2002
- Vanden Berghe, R.  
See Dremine, A. N. 4860
- van den Blink, W. P.  
Proposal for the testing of weld metal from the viewpoint of brittle fracture initiation 4447
- Vandenplas, P. E.  
Electron waves and resonances in bounded plasmas 1423
- Van Dep, N.  
Equations of a fluid boundary layer with couple stresses 5541
- Vanderbilt, M. D.  
Tests of a modified reinforced concrete two-way slab 5390
- Van Der Burgh, A.  
On the asymptotic solutions of the differential equations of the elastic pendulum 2671
- Van-Der-Lijn, E.  
See Nuriel, E. H. 5889
- Van der Linden, C. A. M.  
Torsional-axial vibrations of a ship's propulsion system: Part 1, Comparative investigation of calculated and measured torsional-axial vibrations in the shafting of a dry cargo motorship 2695
- Vander Velde, W. E.  
See Gelb, A. 1644
- van der Vooren, J.  
Calculation of flat plates loaded in their plane with the aid of the finite element displacement method 6885
- van der Voort, E.  
Ideal magnetocaloric conversion 1306
- Van de Wijngaert, B. H.  
Technical problems with the RCN steam generator: Part 3 6538
- Van Dijk, H.  
Concepts of temperature used in the international practical temperature scales 5627
- Van Dine, C. P.  
An algorithm for the optimization of trajectories with associated parameters 2345
- Van Doren, K. R.  
Approximate correction for unsteady pressure differential in a capillary-tube gas viscosimeter 4684
- van Duuren, F. A.  
Defined velocity gradient model flocculator 2073
- Van Dyke, M.  
See Conti, R. 9690
- Van Dyke, P.  
Curvature effects on stress concentrations at reinforced circular holes 103
- Van Fo Fy, G. A.  
Singular solutions of some vector equations 1616  
Wave propagation in reinforcing media 5278
- Van Geen, R.  
A fundamental problem in photoelasticity: Chromatic dispersion of isoclinics and its two causes 1102
- Van Gelder, A.  
Final value optimization of systems with bounded controller and noisy measurements 9107
- van Heerden, W. L.  
A comparison of two methods for measuring stress in rock 268  
Potential fracture zones around boreholes with flat and spherical ends 7046
- van Ingen, J. L.  
On the design of airfoil sections utilizing computer graphics 5583

- Van Langendonck, T.  
Dimensioning of quadrangular and triangular building slabs 338
- van Maaren, P. W.  
Stress corrosion of magnesium alloys 4423
- Van Moorhem, W. K.  
See Moran, J. P. 5520
- Vano, A.  
See Fields, R. A. 1303
- Vanoni, V. A.  
See Davidson, J. F. 5462
- van Stralen, S. J. D.  
Local temperature fluctuations in saturated pool boiling of pure liquids and binary mixtures 2279
- van Thiel, M.  
See Kusubov, A. S. 2733
- van Uchelen, H.  
Composite water towers 4495
- van Vollenhoven, E.  
Frequency analysis of heart murmurs 2448
- Van Wijk, M. C.  
See Reddy, K. V. S. 6451
- Van Wijngaarden, L.  
See Velthuis, H. G. M. 6429
- Varah, J. M.  
Rigorous machine bounds for the eigensystem of a general complex matrix 2479
- Vardanyan, G. S.  
Device for biaxial loading of plane specimens 7934
- Varga, J. J.  
Detection of cavitation by acoustic and vibration-measurement methods 4679  
See also Kisbocsokoi, L. 8147
- Varga, R. S.  
See Perrin, F. M. 3302
- Vargas, M.  
See Ireland, H. O. 9507
- Varley, E.  
See Parker, D. F. 983
- Varma, A. K.  
Some remarks on trigonometric interpolation 4158
- Varma, R. K.  
Flute instability in mirror machines at very low densities 2307  
Radiative transfer effects in natural convection above fires - general case 9008  
See also Rosenbluth, M. N. 2319
- Varma, Y. B. G.  
See Sastri, K. S. R. 5066
- Varshavskii, V. I.  
The problem of selection in a circuit of automata 7692
- Varshavsky, A.  
The cyclic stress behavior of a 355 stainless steel 2024-T8 aluminum alloy 5366
- Varshina, I. G.  
See Zagorskii, T. Ya. 4032
- Varsimashvili, R. Sh.  
See Ezikashvili, O. S. 3648
- Varvak, A. P.  
The stability of a cylindrical shell with a viscoelastic filler 6932
- Varvasinskaya, L. I.  
See Arkadev, B. A. 5645
- Vary, A.  
X-ray observations of flow patterns in a mercury boiler 7448
- Vasandani, V. P.  
See Sen Gupta, D. K. 5613
- Vasanta Ram, V.  
Similarity solutions for the velocity and temperature distribution in the incompressible three-dimensional laminar boundary layer along a rectangular corner 6385
- Vasatko, H.  
See Pawel, D. 3903
- Vasauskas, S. S.  
See Zhilyukas, A. I. 140
- Vasilchenko, Yu. A.  
Resistance with nonisothermal fluid flow in tubes with longitudinal fins 7292
- Vasilenko, A. T.  
See Grigorenko, Ya. M. 6907
- Vasilenko, G. V.  
See Zenkevich, Yu. V. 3011
- Vasilenko, I. I.  
See Khitarishvili, M. G. 298  
Filevich, M. I. 1100  
Karpenko, G. V. 2763
- Vasilenko, N. G.  
Stressed state in a cylindrical shell weakened by a circular hole 4224
- Vasilescu, C. A.  
Ejectors for transport of natural gas 8958  
Entropy diagram for the calculation of changes of state of mixtures of perfect gases 8982  
Calculation of scavenging in two-stroke internal combustion engines 9847
- Vasilev, A. I.  
Method of measuring dynamic parameters 5908
- Vasilev, A. N.  
Thermal conductivity of powder and shaving fillings of different materials 1349
- Vasilev, A. P.  
Principles of the theory and calculation of liquid-fuel rocket motors: Textbook for higher technical institutes 3919
- Vasilev, G. L.  
See Orlin, A. S. 3657
- Vasilev, V. F.  
Experimental investigation of a dc MHD-generator 9885
- Vasilev, V. P.  
Investigation of the influence of the axial clearance on the characteristics of a centrifugal compressor 6444
- Vasilev, V. V.  
Stress variations in a plate due to bolt locking pressure 8006
- Vasileva, A. A.  
The use of ultrasonics for determining soil density 6139
- Vasileva, R. P.  
Investigation of the plasma focus of a coaxial gun 4836
- Vasilevsky, M. A.  
See Roife, I. M. 5744
- Vasilkovskaya, T. N.  
See Golubev, I. F. 7393
- Vasilyev, Yu. A.  
Frequency characteristics of a cylindrical radiator of finite length (in the case of longitudinal and transverse waves) 1875
- Vasilyev, Yu. I.  
Measurement of the stresses and strains in the ground during the propagation of explosion waves 7005
- Vaskov, E. T.  
Thermodynamic properties of octofluorocyclobutane (Freon C-318) 2204
- Vass, A.  
See Cselenyi, J. 382
- Vasy, G. S.  
Profiles for low Reynolds number flows 8030
- Vatazhin, A. B.  
Braking of conductive clusters moving in channels in a nonuniform magnetic field 4819
- Vaughan, H.  
Impulse buckling of an elastic-plastic cylinder containing an elastic core 973  
The response of a plastic cylindrical shell to axial impact 1038
- Vaughan, P. R.  
A note on sealing piezometers in boreholes 4344
- Vaulin, E. P.  
See Odintsova, G. A. 9089
- Vdovin, V. E.  
A theory of elasticity with spatial distribution of matter: Three-dimensional complex structure 5091
- Vedam, R.  
Specific volumes of water at high pressures, obtained from ultrasonic propagation measurements 4711
- Veeder, J. I.  
See Blair, J. M. 6831
- Veerman, C. Chr.  
Registration and mapping of plastically deformed metal surfaces by means of photoelectrons 5356
- Veitz, V. L.  
Self-excited vibrations in machine assemblies with a self-braking device 1854
- Vejvoda, O.  
Periodic solutions of a weakly nonlinear wave equation in  $E_3$  in a spherically symmetrical case 1615

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Vekua, I. N.**  
On construction of approximate solutions of equations of the shallow spherical shell 2632  
Integration of a system of equations of elastic equilibrium of a plate 6031
- Vela, S.**  
*See* McKinley, R. M. 8352
- Veldkamp, G. R.**  
Acceleration axes and acceleration distribution in spatial motion 4203
- Velez, C. E.**  
Numerical integration of orbits in multirevolution steps 9904
- Velichenko, V. V.**  
Optimality conditions in control problems with intermediate conditions 66
- Velichko, V. I.**  
*See* Sukomel, A. S. 9797
- Velizhanina, K. A.**  
Design calculation of sound absorbers comprising a porous material with a perforated facing *See also* Boldareva, O. A. 658 6635
- Velte, W.**  
Convexity of the eigencurves in the Benard problem 8200
- Velthuisen, H. G. M.**  
Gravity waves over a nonuniform flow 6429
- Venediktov, V. D.**  
Equilibrium discharge from a nozzle of a mixture of an ideal gas and a condensing vapor 5527  
Two-phase flow in turbines and reaction nozzles 7361
- Venkata Apparao, K.**  
An approximate analysis of condensation on a rotating disk *See also* Sarma, P. K. 2268 7443
- Venkataraman, R.**  
Principles and applications of tool simulation in the metal cutting process 1073
- Venkata Rao, C.**  
*See* Ramana Rao, M. V. 9643
- Venkatesan, M. S.**  
*See* Baron, F. 7725
- Venter, R. D.**  
The maximization of internal pressure in compound cylinders for a specified degree of plastic deformation 8785
- Ventres, C. S.**  
*See* Dowell, E. H. 996
- Verba, M. I.**  
Determination of heat transfer coefficients in a fluidized bed at variable flow velocity 2401  
*See also* Bakalin, Yu. I. 2196
- Verber, F. G.**  
Dynamics of centrifugal fan wheels 5238
- Verdish, E. N.**  
Device for recording small ambient temperature variations 3846
- Vere-Jones, D.**  
A note on the statistical interpretation of Bath's law 4920
- Vereshchagin, L. F.**  
An apparatus for studying superconductivity at pressures up to 50 kbar 7558
- Vereshchagina-Myshkova, L. I.**  
Free jet boundary layer during equilibrium gas dissociation 5555
- Verga, J.**  
Vibration analysis of a structural frame using the method of mobility 1001
- Verhoef, L.**  
Shock absorption in packages 8666
- Verhoeven, J. D.**  
Experimental study of thermal convection in a vertical cylinder of mercury heated from below 4734
- Verigin, N. N.**  
Calculation method of dewatering the foundation pits under structures 6138
- Verma, A. P.**  
Flow of immiscible liquids in a displacement process in heterogeneous porous medium with variations in phase density 1530
- Verma, G. R.**  
*See* La Budde, C. D. 4136
- Verma, H. K.**  
Mixed boundary value problem for an infinite elastic plane with parabolic cut 86
- Verma, P. D. S.**  
*See* Singh, H. 5209
- Veronda, D. R.**  
Mechanical characterization of skin-finite deformations 8397
- Veronis, G.**  
*See* Kroll, J. 7225
- Verruijt, A.**  
The completeness of Biot's solution of the coupled thermoelastic problem 2387
- Vershinin, S. A.**  
*See* Kovalev, Yu. I. 3513
- Vershinskii, V. A.**  
*See* Sokolov, E. Ya. 5691
- Versteegen, P. L.**  
Experiments on the stability of viscous flow between eccentric rotating cylinders 2867
- Vertushkin, V. K.**  
The effect of radiation on flow in the region of the critical point 9659
- Verveiko, N. D.**  
On a spherical shock wave in a viscoelasto-plastic half space 1042
- Vesic, A. S.**  
Tests on instrumented piles, Ogeechee River site 9510
- Vest, C. M.**  
Overstability of a viscoelastic fluid layer heated from below 4528
- Vestfrid, A. Z.**  
Hydraulic calculations for steam-and-water mixture pipelines 2051
- Victor, D. J.**  
Reinforced concrete T-beams without stirrups under combined moment and torsion 7129
- Vidal, A.**  
*See* Liang, S. F. 1330
- Vidal, H.**  
Reinforced earth 7035
- Vidal, P.**  
*See* Wegrzyn, S. 4167
- Vidal, R. J.**  
Surface measurements on sharp flat plates and wedges in low-density hypersonic flow 461
- Vidin, Yu. V.**  
Temperature distribution in a prismatic body in the case of a variable heat transfer coefficient 3886  
On the temperature field in an infinite plate with a variable heat transfer coefficient 9790
- Vidyanidhi, V.**  
Unsteady Couette flow of a conducting fluid between two parallel plates under a transverse magnetic field: Part 1 3923  
Unsteady Couette flow of a conducting fluid between two parallel plates under a transverse magnetic field: Part 2 3924  
Secondary flow in a rotating straight annular channel 5489
- Viegas, J. R.**  
Electron distribution for a non-equipartition plasma in a strong electric field 9876  
Collision integrals for nonelastic processes in plasma kinetic theory 9877
- Vienot, J.-C.**  
Interferometry and holographic photoelasticity 9544
- Viera da Silva, R. C.**  
Study of the distribution of bed load in an open channel 8037
- Vigak, V. M.**  
Investigating the temperature distribution and stresses in a tube during induced temperature fluctuations 1506
- Vigier, G.**  
*See* Londe, P. 1895
- Vigil, H.**  
*See* Chaudhry, H. M. 8033
- Vijaya Lakshmi, S.**  
Asymmetric creeping flow from an orifice in a plane wall 2064
- Vikhrenko, V. S.**  
Statistical determination of the tensor of viscosity coefficients 2594
- Vikhrev, Yu. V.**  
A study of heat transfer in vertical tubes at supercritical pressures *See also* Lokshin, V. A. 2258 2993
- Viktorov, I. A.**  
Amplification of Rayleigh waves in gallium arsenide crystals 8662

- Viktorov, V. V.  
Determining the dynamic stress-strain diagrams of metals during moderately high speeds of deformation 1112
- Vilenkin, S. Ya.  
Distribution of transfer-function estimates obtained by expanding inputs and outputs in Fourier series 8459
- Vilenskii, V. D.  
Heat transfer in flow of an incompressible viscous liquid between disks 3854
- Villaggio, P.  
Theorems of convergence for minimal sequences in limit analysis  
Stability with respect to the convex of the plastic domains of framed structures 7958
- Vilner, P. D.  
Use of digital computer calculations for the reduction of the vibrations of flexible rotors 8609
- Vilyunov, V. N.  
On the thermal theory of ignition 8231
- Vincent, J.  
On the experimental determination of the discharge coefficient of sonic tubes  
See also Merigoux, J. 3148  
4579
- Vincent, T. L.  
Disconnected optimal trajectories 1678
- Vincentelli, R.  
See Evans, F. G. 5877
- Vincenti, W. G.  
See Gilles, S. E. 3873  
Hetenyi, M. 4134  
Cogley, A. C. 9133
- Vicentini-Missoni, M.  
Scaling analysis of thermodynamic properties in the critical region of fluids 7390
- Vinogradov, B. V.  
Possible interpretation of space photographs of the Earth taken in different spectral bands 1556
- Vinogradov, O. S.  
See Puchkov, P. I. 4750
- Vinogradov, V. S.  
Force analysis of a hinged four-bar mechanism with an elastic coupling-rod 8003
- Vinogradova, G. N.  
See Mochalov, I. P. 4353
- Vinokur, Ya. G.  
See Leonova, G. M. 2266
- Vinokurov, V. A.  
Equipment for investigating stress relaxation at varying temperatures 4463
- Vinson, J. R.  
See Wu, C.-I. 989
- Virk, P. S.  
Heat transfer from the rear of a cylinder in transverse flow 8192
- Visarion, V.  
Analysis of non-thin shells 2652
- Calculul starilor de tensiune in teoria placilor curbe: Cilindri cu sectiune arbitrara suprafete de arie minima (Approximate calculations of stresses of curved shells) 5153
- Viskanta, R.  
See Bathala, P. S. 1348  
Latko, R. J. 4589  
Toor, J. S. 9815
- Visman, J.  
A general sampling theory 5906
- Visnapuu, L. Yu.  
Device for producing aerosols 3170
- Visser, W.  
Heat transfer problems and thermal stresses 5809
- Vis van Heemst, M.  
The heat transfer mechanisms and the static stability concept in a sodium-heated steam generator 7449
- Viswanath, D. S.  
See Seshadri, D. N. 6475
- Viswanathan, K.  
On elastic waves from a finite line-source 6987
- Viswanathan, S.  
Application of static cone penetrometers in the design of deep foundations 5305
- Vito, R. P.  
See Cozzarelli, F. A. 684
- Vives, C.  
Experimental study in the validity region of the Darcy law of the flow of a viscous and electroconductive liquid through an insulating porous medium in the presence of a transverse magnetic field 6559
- Vivian, H.  
Application of asymptotic methods to the study of free viscous layers 7296
- Vlaar, N. J.  
Ray theory for an anisotropic inhomogeneous elastic medium 6997
- Vlach, J.  
Numerical method for transient responses of linear networks with lumped, distributed or mixed parameters 5018
- Vlach, M.  
See Moravek, J. 9245
- Vladimirov, F. S.  
Collision of jets emerging from channels with parallel walls 7185
- Vladimirskii, T. A.  
Choice of mechanical tests in the testing of welds  
Resolving impact strength into its components 3658  
6187
- Vlasak, M.  
Optimum choice of characteristic parameters of axial compressors 3803
- Vlases, G. C.  
Shock and current layer structure in an electromagnetic shock tube  
See also Stebbins, C. F. 5747  
597
- Vlasov, M. A.  
Ion-acoustic oscillations in an inhomogeneous plasma 3940
- Vlasov, V. I.  
Mathematical experiment for the calculation of transport coefficients  
Design of hinged-shoe type brakes 3866  
6284
- Vliet, G. C.  
An experimental study of turbulent natural convection boundary layers 5653
- Voblykh, V. A.  
See Kirilenko, V. F. 7143
- Voce, S. J.  
Buckling under external hydrostatic pressure of orthotropic cylindrical shells with evenly spaced equal strength circular ring frames 4278
- Vodegel, H. J. G. C.  
See Lucassen, L. R. 7322
- Voelker, L. E.  
Stress waves in a laminated medium generated by transverse forces 5270
- Voetman, H. H.  
See Besseling, J. F. 2389
- Vogel, U.  
Ultimate load test on I-shaped restrained columns in biaxial bending 2786
- Vogel, W. M.  
An analytic solution for flow development of symmetric self-preserving jets and wakes, using an integral method 7216
- Vogeler, K.  
See Regenberg, S. 626
- Vogeli, E.  
See Lawton, C. W. 7982
- Vogler, U. W.  
See Bieniawski, Z. T. 265
- Voiculescu, D.  
Some applications of the theory of distributions in strength of materials 3585
- Voight, B.  
See Douglass, P. M. 6161
- Voinea, R.  
Study of continuous beams with equidistant supports by means of functional equations 8755
- Voinov, O. V.  
Energy transfer from a radiating sphere into a medium with molecular heat conduction  
On the motion of two spheres in a perfect fluid 7436  
8852
- Voit, S. S.  
A survey of Soviet studies on Tsunami theory 1545
- Vojta, G.  
See Stiller, W. 6576
- Volbrom, B. A.  
The radial clearance in single-row ball bearings 4513

- Voldek, A. I.**  
Principles of a unified calculation method for cylindrical and plane induction pumps 4832  
New developments in the design of special windings for traveling magnetic field devices 9085
- Volfsen, A. S.**  
Calculation of threaded joints subject to creep 5444  
Long-term strength testing of threaded joints 8813
- Volger, A. H.**  
Closed representation of the solution of statically indeterminate systems through the use of the eigenvalues of matrices 7955
- Volk, H. J.**  
See Davidson, R. C. 9069
- Volkersen, O.**  
The pressurized cylinder stiffened by frames and stringers 8788
- Volkov, A. N.**  
Derivation of an approximate theory of zero-moment shells by asymptotic integration of the equations of the elasticity theory 2644
- Volkov, N. F.**  
See Rao, V. R. 4738
- Volkov, S. D.**  
Initial thermostructural stresses in two-dimensional media 7549
- Volkov, Yu. A.**  
Analysis of the spectra of sea swell developing under the action of turbulent wind 9177
- Volkovitskaya, Z. I.**  
The low-frequency boundary of the inertial interval in the atmospheric boundary layer 4944
- Vollrath, K.**  
Kurzeit-Physik (High-speed physics) 2184
- Volmir, A. S.**  
Behavior of elastic cylindrical shells under the action of a plane acoustic wave 1028
- Volobuev, P. V.**  
See Suetin, P. E. 8085
- Volodin, Yu. G.**  
An investigation of convective heat transfer in a closed space 1338
- Voloshchenko, A. P.**  
Device for the investigation of the thermal stability of turbine blades in conditions of simultaneous thermal and mechanical loading 9149
- Voloshenko-Klimovitskii, Yu. Ya.**  
Electronic instrument for recording impact stresses and strains 2779
- Volozeva, L. Ya.**  
See Miklyaev, P. G. 1726
- Volpert, V. S.**  
The three-dimensional problem in the theory of elasticity of an ellipsoid of revolution and an ellipsoidal void 4216
- Volterra, E.**  
See Chang, T.-C. 4290
- Volynets, A. Z.**  
Application of the least squares method to a model which is nonlinear with respect to the parameters 8467
- von Baranoff, A.**  
On the probability distribution of a class of estimators for the matrix of power density functions of a Gaussian multidimensional stationary random process 18
- von Kerczek, C.**  
The representation of ship hulls by conformal mapping functions 6718
- Vonnegut, B.**  
See McTaggart-Cowan, J. D. 9187
- von Pragenau, G. L.**  
Stability of constant-gain systems with vector feedback 5016
- von Seggern, D.**  
The effect of radiation patterns on magnitude estimates 9966
- Von Turkovich, B. F.**  
Shear stress in metal cutting 8698
- von Zahn, U.**  
Mass spectrometric investigation of the thermosphere at high latitudes 1554
- Vormeringer, R.**  
See Londe, P. 1895
- Vorobev, L. N.**  
A contribution to the problem of Saint-Venant's principle 4225
- Vorobev, N. A.**  
See Ivanova, V. S. 4411
- Vorobeva, E. A.**  
See Kulbakh, A. A. 7090
- Vorobyev, V. I.**  
See Vager, B. G. 7571
- Vorobyov, N. A.**  
See Ivanova, V. S. 283
- Voronin, F. S.**  
Experimental investigation of the hypersonic flow of a rarefied gas past a sphere 9678
- Voronkin, N. F.**  
See Karlashov, A. V. 3556
- Voronov, V. F.**  
See Grigorev, V. P. 9621
- Voronova, L. I.**  
New method for determining the dynamic characteristics of automatic control plants 2514
- Vorovich, I. I.**  
On the solvability of general problems for an elastic closed cylindrical shell in a nonlinear formulation 6048  
Analysis of the nonlinear deformation of a spherical dome to a high approximation 6066  
Stability of a nonshallow spherical dome 6920  
See also Bazarenko, N. A. 7766
- Vorzheva, V. V.**  
Method for logical hazard analysis in electronic switching structures using arbitrary bases 74
- Voskresenskiy, K. D.**  
Approximate estimate of the lower boundary of applicability of the thermal boundary-layer theory 6376
- Voss, G.**  
See Ulbricht, J. 5429
- Votta, F., Jr.**  
See Stern, F. 6504
- Vovelle, C.**  
See Lempereur, F. 3028
- Voves, B.**  
On the analysis of the anchorage of prestressed reinforcement by bond 5402
- Vovk, A. A.**  
Experimental investigation of the compressibility of loamy soils under an explosion 8671
- Voyt, S. S.**  
The diffraction of nonsteady surface and subsurface waves 4065
- Vronskii, A. V.**  
Calculation of foundation tilting on heterogeneous soils 6140  
Considering the nonlinear relationship between the settling of the foundation bed and load in the computation of rigid beams on nonuniform foundations 7029
- Vshola, V. F.**  
See Anufriev, A. A. 4719
- Vukalovich, M. P.**  
The adiabatic exponent for superheated steam 3845  
System of equations for exact description of thermodynamic properties of water and steam 4707  
An equation of state for steam at temperatures above 500°C 4709
- Vulfson, I. I.**  
Nelineinye zadachi dinamiki mashin (Nonlinear problems in the dynamics of machines) 6970
- Vulis, I. L.**  
Some results in forecasting the geopotential field by using a quasi-solenoidal model 9167
- Vulis, L. A.**  
Calculation of a homogeneous turbulent gas flame 3027
- Vutz, N.**  
Thermal contact resistance of anisotropic materials 8990
- Vvedenskaya, N. D.**  
Three-dimensional laminar boundary layer on a blunt body 7300
- Vyskrebentsev, A. Ya.**  
On the theory of bending of sandwich plates 9394
- Vyskrebentsov, V. G.**  
See Bobrovnikov, G. N. 3820
- Vyun, A. V.**  
See Babkin, V. S. 3026
- Wacholder, E.**  
See Hetsroni, G. 4786
- Wacker, G. A.**  
See Chu, H. P. 4421

W

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Wada, T.  
See Udoguchi, T. 7060
- Waddington, J. S.  
See Evans, H. E. 2753
- Wade, G.  
Experimental detection of evanescent ultrasonic waves by Bragg diffraction of light 665
- Wade, J. H. T.  
See Judd, R. L. 7009  
Koo, J. K. 7317
- Wade, N. H.  
See Domaschuk, L. 240
- Waechter, R. T.  
Steady rotation of a body of revolution in a conducting fluid 587  
Steady longitudinal motion of an insulating cylinder in a conducting fluid 4805  
Wing-body interaction in supersonic flow 8925
- Wagner, C. A.  
Perturbations of existing resonant satellites 7517
- Wagner, H. Gg.  
See Pawel, D. 3903
- Wagner, P.  
On the technique of measuring the high-temperature thermal conductivity of a rod 8228
- Wagner, R. D., Jr.  
See Chiang, C. W. 8879
- Wah, T.  
Vibration analysis of stiffened cylinders including inter-ring motion 997  
Elasto-plastic analysis of uniform grillages under lateral load 3413  
Dynamic buckling of thin circular rings 9410
- Wahlbeck, P. G.  
See Wang, K. C. 2113
- Wainger, S.  
See Askey, R. 6763
- Wainwright, W. L.  
See Chakrabarti, S. K. 1699
- Wajda, J. T.  
See Rhines, W. J. 8505
- Wakao, N.  
View factor between two hemispheres in contact and radiation heat-transfer coefficient in packed beds 555
- Wakashima, H.  
Slope measurement by means of moire method 1952
- Wakiya, S.  
Viscous flow in a bifurcate channel 3678
- Walchner, O.  
Laminar hypersonic roll damping derivatives for a  $10^\circ$  cone 2157
- Waldman, C. H.  
Theory of propellant ignition by heterogeneous reaction 8234
- Waldmann, L.  
Nonequilibrium thermodynamics of boundary conditions 4706
- Waldteufel, P.  
Diurnal variations of the density of the atmosphere at 100 km altitude 3214
- Waldvogel, A.  
See Joss, J. 2425
- Walsh, G.  
Some aspects of time-dependent motion of a stratified rotating fluid 9979
- Walkden, F.  
The equations of motion of a viscous compressible gas referred to an arbitrarily moving coordinate system 8062  
See also Eldridge, R. H. 2922
- Walker, A. C.  
Maximum loads for eccentrically loaded thin-walled channel struts 958  
The postbuckling behavior of simply-supported square plates 3434
- Walker, F. E.  
See Wasley, R. J. 6116
- Walker, G. B.  
See James, C. R. 8644
- Walker, G. E., Jr.  
See Emery, A. F. 5814
- Walker, J. C.  
See Lancaster, J. E. 4843
- Walker, L. K.  
Secondary compression in the shear of clays 245  
Undrained creep in a sensitive clay 7875
- Walkinshaw, D. S.  
On thin shallow elastic shells over polygonal bases 1776  
On forced response of polygonal plates 8612
- Wall, E. T.  
See Steward, D. F. 9276
- Wallace, J.  
See Kemp, N. H. 7288
- Wallace, J. F.  
See Moore, G. G. 3527
- Wallach, J.  
Control mechanism performance criteria for an above-knee leg prosthesis 6744
- Wallach, Y.  
See Axelrod, Z. 4156
- Walli, C. R.  
Asynchronous finite-state machines: A novel control system class 53
- Wallis, G. B.  
One-dimensional two-phase flow 7207
- Wallis, R. A.  
Optimization of axial flow fan design 2949
- Wallis, S.  
See Uberoi, M. S. 5570
- Walpole, L. J.  
On the overall elastic moduli of composite materials 5089  
Some elastostatic and potential problems for an elliptic disk 9325
- Walpole, W. R.  
Elasto-plastic seismic response of reinforced concrete frame 3623
- Dynamic elasto-plastic response of a reinforced concrete spandrel frame 3627
- Walsh, D.  
See Richards, F. A. 1309
- Walsh, E. K.  
See Gurtin, M. E. 3482
- Walter, C. M.  
See Wastler, T. A. 3201
- Walter, W. W.  
Wave propagation in an infinite elastic plate in contact with an inviscid liquid 9735
- Walters, K.  
Rheometrical flow systems: Part 1, Flow between concentric spheres rotating about different axes 8014  
See also Abbott, T. N. G. 8015
- Walther, R.  
Analysis of elastic frames with skew connections 7975  
See also Dilger, W. 155
- Waltke, G.  
See Weh, H. 4830
- Walton, W. C., Jr.  
A new matrix theorem and its application for establishing independent coordinates for complex dynamical systems with constraints 832  
See also Adelman, H. M. 9376
- Waltz, F. M.  
A transform technique for time-varying linear hybrid systems 786
- Walz, J. E.  
See Weeks, G. E. 7772
- Wan, F. Y. M.  
Two variational theorems for thin shells 929  
The side-force problem for shallow helicoidal shells 4254
- Wandling, D. E.  
See Johnson, B. L. 6436
- Wane, M. T.  
See Barla, G. 8694
- Wang, A. P.-I.  
On the solutions of finite dimensional time-invariant transport equations 6758
- Wang, A. S. D.  
On free oscillations of elastic incompressible bodies in finite shear 4284
- Wang, C.-C.  
On the response functions of elastic materials 109  
On representations for isotropic functions: Part 1, Isotropic functions of symmetric tensors and vectors; Part 2, Isotropic functions of skew-symmetric tensors, symmetric tensors, and vectors 2459
- Wang, C. F.  
Elastic contact of a strip pressed between two cylinders 3359  
A variational principle of steady-state transport processes 7384
- Wang, C. S.  
See Josenhans, W. T. 6748

- Wang, C.-T.  
See Chen, C.-I. 8833
- Wang, C.-Y.  
The impulsive starting of a sphere 6337  
Lateral vibrations of a rotating shaft in a viscous fluid 8949
- Wang, D. P.  
Finite amplitude effect on the stability of a jet of circular cross-section 495
- Wang, H.  
Viscous flow in a cylindrical tube containing a line of spherical particles 5476
- Wang, H. S. C.  
On the solution of certain field problems by the Schwarz-Christoffel method 5901
- Wang, K.  
Electron and ion distributions in chemical nonequilibrium boundary-layer flows 608
- Wang, K. C.  
Effusion: Part 4, Angular number distributions of gaseous CsCl from right-circular cylindrical orifices into vacuum 2113
- Wang, K. K.  
Temperature responses and experimental errors for multitooth milling cutters 3529  
Investigation of face-milling tool temperatures by simulation techniques 6173
- Wang, P. C.  
See Switzky, H. 1801
- Wang, P. K. C.  
A method for approximating dynamic processes by finite-state systems 1640  
Stability conditions for a diffusion system with nonlinear feedback controls 5013
- Wang, T. M.  
Nonlinear bending of beams with uniformly distributed loads 8547
- Wang, T. T.  
Effect of induced thermal stresses on the coefficients of thermal expansion and densities of filled polymers 6661
- Wang, Y. -C.  
The interaction of internal waves with an unsteady non-uniform current 5596
- Wanke, E.  
See Palmieri, G. 7691
- Warburton, G. B.  
Comments on "vibration studies of a ring-stiffened circular cylindrical shell" 998  
Free vibration of thin cylindrical shells with a discontinuity in the thickness 3456  
See also Henshell, R. D. 5218
- Ward, E. G.  
Strictly sinusoidal flow around a stationary cylinder 8847
- Ward, L. C.  
See Pugh, P. G. 3829
- Ward, M. A.  
The development of a uniaxial tension test for concrete and similar brittle materials 5363
- Ward, S. R.  
See Estrada, H., Jr. 737
- Ward, W. H.  
See Thomas, H. S. H. 3505
- Wardaszko, E.  
Stretching of a grid structure 906
- Ware, J. A.  
Continuous and discrete inverse-scattering problems in a stratified elastic medium: Part 1, Plane waves at normal incidence 2367
- Warfield, J. T.  
Acoustic propagation in a channel with range-dependent sound speed 2366
- Warkulwiz, V. P.  
Transient responses of a linear mechanical system by use of experimentally determined unit impulse responses 2673
- Warmbrod, J. D.  
A theoretical and experimental study of unsteady flow processes in a Ludwig tube wind tunnel 2188
- Warnecke, G.  
Ocean current and sea surface temperature observations from meteorological satellites 8365
- Warner, A. W.  
Piezoelectric and photoelastic properties of lithium iodate 8731
- Warner, C. F.  
Velocity and temperature profiles in the turbulent boundary layer above an evaporating liquid film 3882
- Warner, C. Y.  
An experimental investigation of turbulent natural convection in air at low pressure along a vertical heated flat plate 4735
- Warner, H. R.  
See Gardner, R. M. 3260
- Warner, R. F.  
Biaxial moment thrust curvature relations 151  
Ultimate strength design of thin-wall circular bridge piers 350  
Long reinforced concrete columns in biaxial bending 5398  
See also Brettell, H. J. 1120  
Leong, T. W. 7962
- Warner, R. W.  
Approximate analytical models for landing energy absorption, including the effect of penetration by the payload into its crushable casing 7502
- Warren, F. W. G.  
A problem of vertical distribution of mechanical wave energy in the atmosphere 4073  
Some calculations of vertical mechanical wave energy flux in the atmosphere 6703  
See also MacKinnon, R. F. 8939
- Warren, J. W. L.  
Utilization of strain gages over long periods of time at elevated temperatures 3569
- Warren, M. R.  
See Beevers, C. J. 3539
- Warren, W. E.  
The penny-shaped crack in three-dimensional electrostriction 9333  
See also Norwood, F. R. 2393  
Longcope, D. B. 7545
- Warren, W. R.  
A high-density, high-velocity equilibrium freestream shock-tunnel concept 4694
- Warsi, Z. U. A.  
Further theoretical investigation of the laminar boundary-layer over rotating blades and yawed infinite wings 2118
- Warszawski, B.  
A new concept on fuel cells 2956
- Warton, L. H.  
See Perry, D. H. 3837
- Warwaruk, J.  
See McMullen, A. E. 8765
- Warwick, K. B.  
Modern conveyors 7151
- Wasan, M. T.  
See Roy, L. K. 5907
- Waser, R. H.  
See Seigel, A. E. 1862
- Washbourne, J.  
Photoelastic analysis of dam sections under hydrostatic loading 1951
- Washio, K.  
Experimental study of local failure of chords in tubular truss joints: Part 1 345
- Washo, B. D.  
Heat conduction in linear amorphous high polymers: Orientation anisotropy 6485
- Wasiutynski, Z.  
A theorem on the concentration of local reinforcement effect of a structure 1125  
The hypotheses inherent in the generalized Hooke's law and the nonhomogeneity of deformation properties 6835
- Wasley, R. J.  
Dynamic compressive behavior of a strain-rate sensitive, polycrystalline, organic solid 6116
- Wasserbauer, J. F.  
Dynamic response of a Mach 2.5 axisymmetric inlet with engine or cold pipe and utilizing 60 per cent supersonic internal area contraction 3469
- Wasti, S. T.  
The plastic bending of transversely anisotropic circular plates 8567
- Wastler, T. A.  
Statistical approach to estuarine behavior 3201

- Waszczyszyn, Z.  
Exact equations and computation of finite elastic-plastic deflections of orthotropic shells of revolution 937  
Finite elastic-plastic deflections of orthotropic shells of revolution: Exact equations and calculations 5182
- Waszkiewicz, P. R.  
See Whisnant, J. M. 9110
- Watanabe, K.  
See Ogino, S. 1136
- Watanabe, M.  
See Matsubara, K. 7602
- Watanabe, T.  
A nonlinear theory of two-stream instability 3943  
See also Midzuno, Y. 8265
- Watanabe, Y.  
On the instability of asymmetric rolling at large angle of inclination 9996
- Watari, A.  
An analysis of automobile vibration including windup and shake 5235
- Waterhouse, R. B.  
See Bethune, B. 1568
- Waterman, P. C.  
New formulation of acoustic scattering 7535
- Waters, P. L.  
See Bowling, K. McG. 575
- Waterston, R. J.  
One-dimensional shock waves and acceleration fronts in nonlinear viscoelastic materials 4328
- Wathen, G. R.  
See Grundy, P. 9590
- Watkins, B.  
See Fearnough, G. D. 279
- Watkinson, F.  
Hydrogen cracking in high-strength weld metals 4385
- Watson, D. M.  
Simulation studies for planning an in-flight experiment to define manual guidance and control techniques for large launch vehicles 4849
- Watson, E. C.  
Investigation of laminar and turbulent boundary layers interacting with externally generated shock waves 1211
- Watson, H., Jr.  
Dynamic stress-strain characteristics of metals at elevated temperatures 3163
- Watson, R. D.  
See Goyer, G. G. 3217
- Watson, R. J.  
See Foster, M. R. 1534
- Watt, D. F.  
Nucleation of persistent slip bands 899
- Watt, W.  
High-strength high modulus carbon fibers for use as a reinforcement 4237
- Wattenbarger, R. A.  
Gas well testing with turbulence, damage and wellbore storage 9161
- Watters, B. G.  
Instrumentation for acoustic modeling 9932
- Watts, D.  
See Holister, G. S. 6216
- Watts, R. G.  
See Olander, R. R. 531
- Watts-Tobin, R. J.  
See Meredith, D. J. 6645
- Wazzan, A. R.  
On the measurement of wall shear stress by means of an evaporating liquid film 2263
- Weardon, G.  
See Weston, D. E. 4027
- Weaver, W. L.  
Water injection from a 9° hemisphere-cone into a hypersonic air-stream 6516
- Webb, F. E. B.  
Diesel engine crankshaft wear 7591
- Webber, D. A.  
See Hovell, P. B. 3838
- Weber, L. A.  
P-V-T, thermodynamic and related properties of oxygen from the triple point to 300 K at pressures to 33 MN/m<sup>2</sup> 7389
- Weber, M. E.  
Improving the accuracy of Crank-Nicolson numerical solutions to the heat-conduction equation 2220
- Weber, T., Jr.  
Recent advances in cam design 5426
- Weber, T. B.  
See Poyer, J. 3239
- Weber, W. G., Jr.  
Performance of embankments constructed over peat 5292
- Webster, J. C.  
Identifying diesel engine sounds 645
- Webster, R. B.  
Jet noise simulation on shallow water 5796
- Wedlich, Th.  
See Marguerre, K. 5216
- Wee, R. S. S.  
See Carnegie, W. 7803
- Weeks, G. E.  
Generalized ring stiffness matrix for ring-stiffened shells of revolution 7772
- Weertman, J.  
Theory of rate of growth of fatigue cracks under combined static and cyclic stresses 1094  
Dislocation motion on an interface with friction that is dependent on sliding velocity 8356
- Weertman, R. J.  
Ducted propellers: A review and description of current investigation 7369
- Weeton, J. W.  
See Jech, R. W. 7557
- Wegener, P. P.  
Experiments on shock stand-off distance in nonequilibrium flow 434  
Gasdynamics: Vol. 1, Nonequilibrium flows: Part 1 2870
- Wegrzyn, S.  
On the synthesis of completely stable systems 4167  
The identification of processes in metric space 7664
- Weh, H.  
Induction phenomena in MHD converters with constant and traveling magnetic field 4830
- Wehnert, W.  
The meridional velocity component of fluid flow in the inlet region of a radial compressor 1412
- Wehrli, Ch.  
On the problem of the stability of nonuniformly rotating viscoelastic shafts 5222
- Wei, R. P.  
The effect of D<sub>2</sub>O on fatigue-crack propagation in a high-strength aluminum alloy 1936  
Correlation between sustained-load and fatigue crack growth in high-strength steels 5338
- Weichbrodt, B.  
See Weller, E. J. 4382
- Weidler, J. B.  
Analytical description of behavior of granular media 1514
- Weidman, D. J.  
Simplified ballistic-limit expressions for thin sheets 2730
- Weigel, C.  
See Heidelberg, L. J. 5614
- Weihls, D.  
Carbon dioxide dissociation relaxation times, measured in a shock tube 1221
- Weil, B. L.  
Stress-corrosion crack detection and characterization using ultrasound 9541
- Weiland, R. H.  
Jet penetration in turbulent streams 9694
- Weilmuenster, K. J.  
A self-opening diaphragm for expansion tubes and expansion tunnels 9759
- Weinbaum, S.  
On the two-dimensional viscous counterpart of the one-dimensional sonic throat 5551
- Weinberg, F. J.  
See Schwar, M. J. R. 3037  
Schwar, M. J. R. 5617
- Weinberg, S. L.  
See Shapiro, A. H. 3246
- Weingold, H. D.  
See Mikolajczak, A. A. 8952
- Weinstein, A. S.  
See Wesner, J. W., Jr. 5108
- Weinstein, L. M.  
Effects of two-dimensional sinusoidal waves on heat transfer and pressure over a plate at Mach 8.0 9813
- Weinstock, J.  
Formulation of a statistical theory of strong plasma turbulence 8259

- |  |              |   |              |   |              |
|--|--------------|---|--------------|---|--------------|
| Weir, R. H.<br>Propulsion prospects  | 7476         | Wendt, R. L.<br>See Wiginton, C. L.   | 1159         | Westerhof, N.<br>Analog studies of the human systemic arterial tree   | 2449         |
| Weir, R. M.<br>The effects of earth leakage on electrical resistance strain gages  | 7925         | Weng, T.-L.<br>Biaxial fracture strength and mechanical properties of graphite-base refractory composites   | 1079         | Westine, P. S.<br>See Baker, W. E.  | 5346         |
| Weiss, E.<br>Investigation of weakening of perforated circular plates  | 6882         | Wenger, N. C.<br>A variational principle for magneto-hydrodynamic channel flow  | 3062         | Westmann, R. A.<br>See Veronda, D. R.   | 8397         |
| Weiss, H. J.<br>Developments in mechanics  | 4132         | Wenzel, H. G., Jr.<br>See Yen, B. C.  | 8027         | Weston, D. E.<br>Experiments on time-frequency interference patterns in shallow-water acoustic transmission   | 4027         |
| Weiss, L.<br>Equipment for digital measurement of strains in steel wires by an acoustic method   | 1961         | Wenzel, L. A.<br>See Ahlert, R. C.  | 4708         | Westphal, K. O.<br>See McKenzie, J. F.  | 6354         |
| Weiss, V.<br>Crack propagation and initiation in low-cycle-strain controlled fatigue   | 3549         | Werele, M. J.<br>On solutions of the integral form of the second-order boundary-layer equations   | 6365         | Wetton, A. G.<br>A review of theories of metal removal in grinding<br>An examination of grinding detritus and ground surfaces   | 1077<br>3230 |
| Weissenberger, S.<br>Lyapunov design of time-shared sampled-data control systems   | 2521         | Werle, H.<br>Hydraulic tank for the visualization of flows around stationary vehicles   | 6455         | Wheeler, C.<br>See Bradshaw, F. J.  | 7905         |
| Weissinger, J.<br>Airfoil theory for exponential shear flow  | 2148         | Werner, A.<br>The lengthening pendulum  | 1695         | Wheeler, E. J.<br>See Lewis, D.   | 8331         |
| Weissman, M. H.<br>Oxygen and carbon dioxide transfer in membrane oxygenators  | 3247         | Werner, H.<br>Deflection, moment, and influence diagrams of an infinite plate on columns with free or supported slot  | 5150         | Whetstone, W. D.<br>Vibrational characteristics of linear space frames<br>Computer analysis of large linear frames  | 6959<br>8757 |
| Weitsman, Y.<br>On the unbonded contact between plates and an elastic half space   | 858          | Wernick, J.<br>See Schubert, E. D.  | 2447         | Whillier, A.<br>An anemometer for the continuous measurement of air speed in mines  | 513          |
| Weitzner, H.<br>See Rotenberg, A.  | 7276         | Wesner, J. W., Jr.<br>Computerized relaxation applied to the plane-strain indenter  | 5108         | Whipple, E. C., Jr.<br>Theory of an electron trap on a charged spacecraft   | 3958         |
| Welbourn, C. E.<br>See Perry, D. H.  | 3837         | Wesolowski, Z.<br>Transition from compressible to incompressible materials in linear elasticity<br>Finite deformations of an elastic wedge and cone   | 91<br>8503   | Whipple, W., Jr.<br>Optimum investment in structural flood control  | 9173         |
| Welch, W. P.<br>Structural and vibration analysis of Navy class high impact, medium weight shock tests   | 318          | Wessel, H. U.<br>See Grahn, A. R.   | 9213         | Whisnant, J. M.<br>Transient damping of a three-body gravity-gradient satellite<br>Attitude performance of the GEOS-II gravity-gradient spacecraft  | 6613<br>9110 |
| Weller, E. J.<br>What sound can be expected from a worn tool?  | 4382         | Wesseling, P.<br>Laminar convection cells at high Rayleigh number<br>A two-variable asymptotic solution for three-dimensional solar powered low-thrust trajectories in the vicinity of the ecliptic plane | 1329<br>3109 | Whitbread, J. E.<br>Model analysis of the Royal Albert Bridge, Saltash  | 2000         |
| Wells, A.<br>Numerical calculations of the properties of axially symmetric arc columns   | 3091         | Wesslau, K.-H.<br>On the contact problem of a rigid rotationally symmetric body with the elastic half-space   | 3358         | White, D. J.<br>Effect of truncation of peaks in fatigue testing using narrow band random loading<br>The fatigue strength of large single-pinned and double-pinned connections made from alloy steel FV520B | 4402<br>9538 |
| Wells, B. J.<br>See Moseley, W. C., Jr.  | 7374         | West, B. S.<br>See Roth, G. J.  | 6202         | White, F. M.<br>A new integral method for analyzing the turbulent boundary layer with arbitrary pressure gradient   | 5547         |
| Wells, C. S.<br>Viscous drag reduction   | 7303         | West, C.<br>Some experiments on ultrasonic cavitation using a pulsed neutron source<br>Experimental measurements on cavitation bubble dynamics  | 2846<br>7181 | White, G. P.<br>See Thomson, G. B.  | 5858         |
| Wells, W. L.<br>Description of the high-enthalpy arc tunnel at the Langley Research Center including test-stream conditions at selected operating points | 3835         | West, J. E.<br>See Sessler, G. M.   | 3144         | White, H. J.<br>See Niller, P. P.   | 8835         |
| Welnicki, W.<br>Method of estimation of wind influence upon the course keeping ability of ships with large superstructures                               | 1559         | West, R. G.<br>Fan lift in VTOL design  | 6598         | White, J. B.<br>See Palfrey, A. J.  | 1588         |
| Welsby, V. G.<br>Suggested simplified presentation of one aspect of finite-amplitude field theory<br>Scattering phenomena in acoustic wave propagation   | 3781<br>9934 | Westbrook, D. R.<br>Stability of convective flow in a porous medium   | 6683         | White, M. D.<br>The simulator to match the transport to come  | 2490         |
| Wempner, G.<br>Plate theories via energy potentials  | 7757         |   |              | White, R. M.<br>Prediction of icebreaker capability<br>See also Joshi, S. G.  | 9995<br>1043 |

- White, R. W.  
See Crocker, M. J. 4291
- Whitehead, A. H., Jr.  
Flow-field and drag characteristics of several boundary-layer tripping elements in hypersonic flow 2129
- Whitehead, D. S.  
Nonlinear acoustic oscillations in a spherical cavity 496
- Whitehead, J. A.  
See Newell, A. C. 7417
- Whitehouse, G. D.  
See Brewer, J. A., III 8805
- Whitelaw, J. H.  
See Pai, B. R. 3822  
Sivasegaram, S. 3898  
Kacker, S. C. 5699  
Pai, B. R. 8122
- Whiteley, K. J.  
See Balasubramaniam, E. 4980
- Whiteside, D. T.  
The mathematical papers of Isaac Newton: Vol. 1, 1664-1666; Vol. 2, 1667-1670 4135
- Whitfield, J. D.  
Experiments on roughness effects on cone boundary-layer transition up to Mach 16 2902
- Whitlock, C. H.  
Inflation and performance of three parachute configurations from supersonic flight tests in a low-density environment 3982
- Whitman, A. B.  
See De Silva, C. N. 1779
- Whitman, R. V.  
Hydraulic fills to support structural loads 7039
- Whitney, J. M.  
Analysis of heterogeneous anisotropic plates 165  
Cylindrical bending of unsymmetrically laminated plates 6883  
Analysis of a simply supported laminated anisotropic rectangular plate 6931
- Whittier, J. S.  
Experiments on dispersive pulse propagation in laminated composites and comparison with theory 3493  
See also Jones, J. P. 1866  
Commerford, G. L. 6121
- Whittington, R. B.  
Convergent stilling basins 5456
- Whomes, T. L.  
See Dowson, D. 4100
- Whybrow, J. F. T.  
See Horn, G. 3913
- Whymark, R. R.  
Effect of large-amplitude static and dynamic stress on the mechanical loss of lead zirconate titanate transducer ceramic 1499
- Wibulswas, P.  
See Montgomery, S. R. 3008
- Wickens, A. H.  
General aspects of the lateral dynamics of railway vehicles 6271
- Widera, O. E.  
An asymptotic theory for the vibration of anisotropic plates 6952  
See also Wu, C.-H. 7782
- Widmoser, P.  
The effect of regions of different permeability near drain and well filtering pipes 4053
- Widnall, S. E.  
See Djojodihardjo, R. H. 3758
- Widom, A.  
Statistical mechanics of rotating quantum liquids 7391
- Wiebols, G. A.  
An energy criterion for the strength of rock in polyaxial compression 267
- Wiederhielm, C. A.  
Structural response of relaxed and constricted arterioles 8399
- Wiendieck, K. W.  
Stress-displacement relations and terrain-vehicle mechanics: A critical discussion 1058  
A theoretical evaluation of the shear-to-normal stress ratio at the soil-wheel interface 2814
- Wierzbicki, T.  
Impulsive loading of rigid viscoplastic plates 3497  
Large deflections of a strain rate sensitive plate loaded impulsively 4267  
On the bending-shear interaction in viscoplastic flow of circular plates 4268  
Bounds on large dynamic deformations of structures 9568
- Wiese, J. C.  
See Bowen, R. M. 2966
- Wight, K. C.  
See Moore, A. W. 3830
- Wiginton, C. L.  
Flow in the entrance region of ducts 1159
- Wilcox, P. L.  
Effect of a continuous area convergence on the motion of a shock wave 3707
- Wilcox, P. R.  
See Reed, R. E., Jr. 9337
- Wilcox, R.  
Closed-form solution of the differential equation  $\left(\frac{\partial^2}{\partial x \partial y} + ax \frac{\partial}{\partial x} + by \frac{\partial}{\partial y} + cxy + \frac{\partial}{\partial t}\right) P = 0$  by normal-ordering exponential operators 8418
- Wildmann, M.  
See Eshel, A. 3235
- Wilhem, D. P.  
Fracture mechanics guidelines for aircraft structural applications 5325
- Wilhelmsson, H.  
Nonlinear coupling of waves in a magnetized plasma with particle drift motions 3068
- Wilkinson, J. H.  
See Martin, R. S. 8442
- Wilkie, D. F.  
Essential parameters in sensitivity analysis 790
- Wilkinson, D. H.  
A numerical solution of the analysis and design problems for the flow past one or more airfoils or cascades: Part 1, The analysis problem; Part 2, The design problem 3799
- Wilkinson, J. P. D.  
The oscillations of a sandwich sphere 1846  
A penetration criterion for double-walled structures subject to meteoroid impact 4334
- Wilkinson, W. B.  
Constant head in situ permeability tests in clay strata 8672  
See also Berry, P. L. 7011
- Wilks, G.  
The flow around a semi-infinite oscillating plate and the skin friction on arbitrarily cross-sectioned infinite cylinders oscillating parallel to their length 1235
- Will, R. W.  
See Anderson, W. W. 9909
- Willard, R. J.  
Effect of loading rate on transgranular-intergranular fracture in charcoal gray granite 4372  
See also Thill, R. E. 4919
- Wille, R.  
See Gropengiesser, H. 2185
- Willems, J. L.  
Improved Lyapunov function for transient power-system stability 1648  
The computation of finite stability regions by means of open Lyapunov surfaces 7662
- Willett, J. E.  
Nonlinear oscillations in a weakly ionized plasma 5742
- Willett, R. E.  
See Bray, R. S. 5447
- Williams, A.  
See Hunter, A. 539
- Williams, C. E.  
Judgments of the acceptability of aircraft noise in the presence of speech 1479
- Williams, D. G.  
Effect of shear deformation on uniformly loaded rectangular orthotropic plates 9372
- Williams, F. A.  
Simplified model for effect of solid heterogeneity on oscillatory combustion 1401  
An approach to turbulent flame theory 7459  
See also Kassoy, D. R. 3029
- Williams, F. W.  
Computational procedures for a matrix analysis of the stability and vibration of thin flat-walled structures in compression 7789

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Williams, G. P.  
Manning formula - a misnomer? 5455  
Numerical integration of the three-dimensional Navier-Stokes equations for incompressible flow 6327  
Thermal convection in a rotating fluid annulus: Part 1, The basic axisymmetric flow 6488  
Thermal convection in a rotating fluid annulus: Part 2, Classes of axisymmetric flow 6489
- Williams, J.  
Technical problems in the conception and utilization of V/STOL transport aircraft 7498
- Williams, J. A.  
The effect of prestrain on creep life 9537  
See also Emery, A. F. 5806  
Emery, A. F. 5814
- Williams, J. B.  
A correlation of the windward shock angle on yawed cones 8881
- Williams, J. C., III  
Slender channel approximation in low Reynolds number channel flow 421  
Conical nozzle flow of a viscous compressible gas with energy extraction 1214  
See also Chen, R. Y. 3696  
Adams, J. C., Jr. 6378
- Williams, J. E. F.  
Transition from laminar to turbulent flow 5561
- Williams, J. G.  
See Pakdemirli, E. 862  
Wiggles, J. D. 2588  
Delatycki, O. 4242
- Williams, J. W.  
Water level indication in modern power plants, nuclear and fossil fueled 9045
- Williams, K. J.  
See Helliwell, B. J. 8727
- Williams, M. L.  
See DeVries, K. L. 4424  
DeVries, K. L. 7945
- Williams, M. M. R.  
Rarefied gas flow between parallel plates 2109  
Boundary-value problems in the kinetic theory of gases: Part 1, Slip flow 7269  
The temperature distribution in a radiating fluid flowing over a flat plate 8213
- Williams, R. B.  
See Gibson, C. H. 8368
- Williams, R. F.  
See Fowles, R. 9475
- Williams, R. H.  
Quantum-mechanical plasma transport theory 4813
- Williams, T. J.  
Noise and flow characteristics of coaxial jets 1476
- Williams, W. D.  
See Lewis, J. W. L. 6480
- Williams, W. O.  
On internal interactions and the concept of thermal isolation 5637  
See also Chen, P. J. 2221
- Williamson, F. W.  
General report on prestressed concrete pipes 5401
- Williamson, J. W.  
Decay of symmetrical laminar distorted profiles between flat parallel plates 7289
- Williamson, L. E.  
Gun-launched meteorological probe and its application to a global meteorological sounding network 3216
- Williamson, S. E.  
Accurate root locus plotting including the effects of pure time delay 9273
- Willis, C. M.  
See Rhodes, M. D. 4705
- Willis, D. L.  
Strain gages in high-g environments 1955
- Willis, D. M.  
The influx of charged particles at the magnetic cusps on the boundary of the magnetosphere 6582
- Willis, D. R.  
See Su, C.-L. 5669
- Willis, J. R.  
See Burrige, R. 5995
- Willmarth, W. W.  
Aerodynamic lift and moment fluctuations of a sphere 2149
- Willmott, A. J.  
Simulation of a thermal regenerator under conditions of variable mass flow 1381
- Willson, A. J.  
Basic flows of a micropolar liquid  
Boundary layers in micropolar liquids 8023  
8819
- Wilmanski, K.  
Dynamics of bodies with microstructure 4219  
Microeffects of scale in dynamics of a continuum 8514
- Wilms, E. V.  
Damping of a rectangular stress pulse in a thin elastic rod by external Coulomb friction 1856  
Forced vibrations of a single-degree-of freedom system with Coulomb bearing friction 5236
- Wilshaw, T. R.  
Response of circular clamped plates to square-wave stress pulses 2722
- Wilson, A. J. C.  
Elements of X-ray crystallography 9555
- Wilson, B. W.  
The threshold of surge damage for moored ships 5861
- Wilson, D.  
See Nilsson, C. S. 9166
- Wilson, E. L.  
See Murray, D. W. 2667  
Sandhu, R. S. 6687
- Wilson, J. F.  
Cross-velocity behavior in parallel channel flow 2052
- Wilson, J. L.  
Heat transfer and transition measurements at  $M = 8.5$  on a delta model and a flat plate at incidence 2918  
See also Davies, L. 5569
- Wilson, K. C.  
Slip point of beds in solid-liquid pipeline flow 4552
- Wilson, K. H.  
See Bridgewater, J. 8926
- Wilson, M. J. G.  
See Robson, K. 9835
- Wilson, P. E.  
Origin of generating functions in applied mechanics 5980
- Wilson, R. G.  
Spectral and integrated emittance of ablation chars and carbon 9027
- Wilson, S.  
The development of Poiseuille flow 8858
- Wilson, S. W., Jr.  
See Taylor, J. J. 8308
- Wilson, T. T., Jr.  
Manning  $n$  for cast-in-place concrete pipe 2838
- Wimbush, M. H.  
See Caldwell, D. R. 4930
- Wimmer, K.  
Hydrostatic radial bearing 6729
- Wimp, J.  
Derivative-free iteration processes of higher order 5001
- Windisch, S. J.  
Technique for study of granular materials 9505
- Winek, H.  
A method for determining soil resistance against cutting 7008
- Wineman, A. S.  
Controllable motions of compressible simple materials of various types 1149  
See also Fosdick, R. L. 81
- Wing, C. G.  
MIT vibrating string surface-ship gravimeter 5849
- Wing, O.  
An efficient method of numerical inversion of Laplace transforms 4161
- Winiarska, T.  
See Murzewski, J. 4218
- Winkler, H.  
See Reichardt, W. 3145
- Winn, W. P.  
A device for measuring the radii of raindrops 1558
- Winokur, A.  
Ultimate strength analysis of coupled shear walls 362
- Winston, M. M.  
Wind-tunnel investigation of steady-state aerodynamics of a composite-lift VTOL aircraft model 2336

- Winter, E. R. F.  
See Toor, J. S. 9815
- Winter, G.  
See Ruiz, W. M. 4476
- Winter, J. M.  
Design of injectors and ablative thrust chambers for a floxpropane rocket engine with a 1.2-inch throat diameter 4785
- Winter, K. G.  
Characteristics of aft-mounted all-moving rectangular control surfaces on a slender cruciform model at Mach numbers from 0.6 to 2.8 2923
- Winter, P. M.  
Biaxial residual surface stresses from grinding and finish machining 304 stainless steel determined by a new dissection technique 8702
- Wirtz, D. P.  
See Ulrich, R. D. 3022
- Wirtz, R. A.  
See Chen, C. F. 2916
- Wisander, D. W.  
Friction and wear of nine selected polymers with various fillers in liquid hydrogen 4968
- Wishart, P. B.  
The design and testing of naval equipment to resist damage by underwater explosions 4959
- Wislicenus, G. F.  
See Robertson, J. M. 2178
- Wislicki, A.  
Wspolzależność parametrow leśmiesz i zespołu jezdni spycharki oraz warunków gruntowych (Układ: narzędzie robocze - ciągnik - grunt), (Interrelation between the parameters of a bulldozer blade, tractor, and soil conditions (Tractor-soil working tool system)) 6269
- The influence of soil condition on the performance of a tracklayer operating a bulldozer 7037
- Wismer, D. A.  
An efficient computational procedure for the optimization of a class of distributed parameter systems 7688  
See also Bauman, E. J. 5958
- Wisniewski, S.  
The dynamic problem of rapid starting of a machine by means of a system of high torsional rigidity with a friction clutch 2820
- Wisniewski, Z.  
Analysis of a vibratory-impact system with an air-suspension element 4312  
Analysis of a vibratory-impact system with nonlinear spring characteristics 6077
- Wisnivesky, D.  
See Gross, E. P. 2960
- Wissa, A. E. Z.  
Pore pressure measurement in saturated stiff soils 7017
- Witalis, E. A.  
Theory for oscillations in MPD accelerators 7486
- Witherspoon, J. E.  
See Hergert, W. F. 9041
- Witkowska, Z.  
See Gomulinski, A. 8552
- Witkowski, J.  
The influence of the elastic properties of screw joined elements on the load acting on the connecting element 2009
- Witney, B. D.  
The determination of soil particle movement in two dimensional failure 7007
- Witte, A.  
Experimental investigation of a highly ionized, arc-heated, supersonic freejet 1443
- Witte, A. B.  
Laser holographic interferometry study of high-speed flowfields 9747
- Wittenberg, H.  
Range performance of hypervelocity vehicles 8131
- Wittfoht, H.  
Circular curved beam with eccentric loading 916
- Wittler, M.  
A multiplier rule for a functional subject to certain integrodifferential constraints 2468
- Wittrick, W. H.  
Stability functions for the local buckling of thin flat-walled structures with the walls in combined shear and compression 963  
See also Williams, F. W. 7789
- Wizmur, M.  
A particular solution for a prestressed textile membrane 4262
- Wlodarski, A.  
Air pressure in the bulk of granular solid discharged from a bin 6664
- Woelke, S.  
Dynamic stresses in a thin circular disk induced by the action of an unsteady source of heat 7551
- Woernle, H. -T.  
See Marguerre, K. 6030
- Wojciechowski, B. W.  
See Swinkels, G. M. 4111
- Wojda, W.  
Some problems of accuracy of measurements by means of resistance-type strain-gages 6217
- Wojnar, R.  
The determination of the state of stress in a nonhomogeneous body by the photoelastic method 3563
- Wojno, W.  
See Perzyna, P. 8326
- Wolberg, J. R.  
Prediction analysis 21  
See also Hetsroni, G. 1188
- Wolf, R. A.  
Solar-wind flow behind the Moon 4829
- Wolf, S.  
Effects of nonuniform inlet velocity profiles on flow regimes and performance in two-dimensional diffusers 4595  
See also London, A. L. 2272
- Wolfe, C. J.  
Damping inserts in vibrating structures 6973
- Wolfe, P.  
Convergence conditions for ascent methods 3291
- Wolfel, H.  
See Marguerre, K. 5216
- Wolfsdorf, L. V.  
Representation of the solutions of two Hadamard problems with the equation  $(\partial/\partial x) \Delta U = 0$  8419
- Wolff, M.  
Direct measurements of the Earth's gravitational potential using a satellite pair 6700
- Wolford, J. C.  
See Givens, E. J. 1141
- Wolfshtein, M.  
The velocity and temperature distribution in one-dimensional flow with turbulence augmentation and pressure gradient 7318  
See also Runchal, A. K. 5492
- Wolkind, D. J.  
Linear perturbation analysis of the stability of a dissociating fluid 8078
- Wolovich, W. A.  
A frequency domain approach to the design and analysis of linear multi-variable systems 6796
- Wolowski, E.  
See Doring, H. 7175
- Wong, J. K. S.  
Evaporation of sprays 9015
- Wong, J. S. W.  
Some remarks on Hermitian and anti-Hermitian properties of Green's matrices 9219
- Wong, J. Y.  
Double-shock method for detecting pressure limits of magnetic phase transitions 5279
- Wong, K. Y.  
Identification of linear discrete time systems using the instrumental variable method 795
- Wong, S. W.  
Effects of ultrasonic vibrations on heat transfer to liquids by natural convection and by boiling 8220
- Wonham, W. M.  
On the separation theorem of stochastic control 1663  
A computational approach to optimal control of stochastic saturating systems 5953
- Woo, T. C.  
Wave decay on glass surface at high temperatures 3775
- Wood, A. A.  
See Osgerby, C. 6230

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Wood, A. D.  
See Griffith, W. C. 6499
- Wood, B. J.  
An experimental study of fuel drop-  
let ignition 6518
- Wood, D. H.  
Green's functions for unbounded  
constant gradient media 4023
- Wood, D. J.  
Influence of line motion on water-  
hammer pressures 4651
- Wood, E. R.  
Dynamic plastic response of finite  
bars 7862
- Wood, F. H., Jr.  
See Berrier, B. L. 1253
- Wood, G. A.  
See Burrows, R. R. 4005
- Wood, H. A.  
See Haglage, T. L. 309
- Wood, I. F.  
See Munday, G. 7462
- Wood, I. R.  
See Tsang, G. 1170
- Wood, J. C.  
See Kruchow, R. 4106  
Curren, J. S. 9851
- Wood, J. H.  
Use of "free" scavenge air in the  
development of two-stroke loop-  
scavenged engines for turbo-  
charging 7471
- Wood, J. L.  
See Robbins, D. H. 751
- Wood, R. H.  
Some controversial and curious de-  
velopments in the plastic theory of  
structures 328
- Wood, W. A.  
Fatigue mechanism in iron at ultra-  
sonic frequency 7059  
See also Mason, W. P. 1089
- Wood, W. G.  
See Remedios, N. C. 166  
Cridland, L. 1110
- Wood, W. P.  
See Ninham, B. W. 9939
- Woodfield, A. A.  
Measurement of the yawing moment  
and product of inertia of an aircraft  
by the single point suspension  
method: Theory and rig designs 6420
- Woodford, D. A.  
Measurement and interpretation of  
the stress dependence of creep at  
low stresses 116
- Woodhead, M. M.  
See Webster, J. C. 645
- Woodley, J. G.  
Performance estimates for a  
reflected-shock tunnel with a  
modified driver to produce high  
test-section Reynolds numbers 8972
- Woodley, W. L.  
Precipitation results from a pyro-  
technic cumulus seeding experi-  
ment 9185
- Woodrum, A.  
Atmospheric tides in the height  
region 90 to 120 kilometers 3211
- Woods, B. A.  
The supersonic flow past an elliptic  
cone 8060
- Woods, C. J.  
See Wolfe, C. J. 6973
- Woods, W. A.  
Boundary conditions and initial  
value lines for unsteady homon-  
otropic flow calculations 9671
- Woodside, C. M.  
Statistical equivalence of stochastic  
and nonlinear systems 5021
- Woodward, J. H.  
Fluid behavior in a longitudinally  
excited, cylindrical tank of arbi-  
trary sector-annular cross section 9728
- Woolley, M. V.  
See Gifford, E. W. H. 4490
- Wootton, L. R.  
The oscillations of large circular  
stacks in wind 5233
- Workman, D. R.  
RMS voltmeters in dynamic testing 6985
- Workman, G.  
Transmission of acoustic waves  
through submerged viscoelastic  
spherical shells 7538
- Worlund, A. L.  
See Liu, C. K. 9732
- Wormley, D. N.  
An analytical model for the incom-  
pressible flow in short vortex  
chambers 2062
- Woroszy, S.  
See Kaliski, S. 622
- Worsfold, J. H.  
See Bertodo, R. 4871
- Wortmann, F. X.  
Visualization of transition 5562
- Wozney, G. P.  
An investigation of vibrational stress  
relief in steel 1106
- Wozniak, Cz.  
On foundations of the dynamics of  
nonsimple bodies 3349  
On continuous models of certain  
systems of bodies 6834
- Wray, P. J.  
Strain-rate dependence of the tensile  
failure of a polycrystalline ma-  
terial at elevated temperatures 7555
- Wriggles, J. D.  
Stress-strain behavior of a low  
density polyethylene under com-  
plex strain 2588
- Wright, D. E.  
Nonlinear flow through granular  
media 3177
- Wright, F. W.  
See Nilsson, C. S. 9166
- Wright, G. P.  
See Haines, D. J. 4425
- Wright, H. A., Jr.  
Time-domain analysis of broad-  
band refraction and diffraction 9935
- Wright, M. A.  
See Hordon, M. J. 2037
- Wright, R. H.  
Wind-tunnel lift interference on  
sweptback wings in rectangular  
test sections with slotted side walls  
See also Schilling, B. L. 8171  
6456
- Wright, R. L.  
See Stallings, R. L., Jr. 6412
- Wright, R. N.  
See Abel-Samad, S. R. 344  
Gustafson, W. C. 6262
- Wright, S. E.  
Sound radiation from a lifting rotor  
generated by asymmetric disk  
loading 642
- Wright, S. J.  
The combustion of coal in fluidized  
beds for firing shell boilers 8243
- Wright, W. M.  
See Fisher, F. H. 2376
- Wrigley, W.  
Gyroscopic theory, design, and  
instrumentation 5937
- Wrou, G. M.  
See Likins, P. W. 2347
- Wrzecionko, E.  
See Akhmatkhodzhaev, B. 9318
- Wu, C. G.  
See Pih, H. 9739
- Wu, C. H.  
A nonlinear boundary layer for  
shells of revolution 2635  
Tube to annulus: An exact non-  
linear membrane solution 6880  
On the solutions of plates, strips,  
rods, and cylinders subjected to  
arbitrary dynamic edge load 6992  
Stability of a thick rubber solid  
subject to pressure loads 7782
- Wu, C. I.  
Influences of large amplitudes,  
transverse shear deformation, and  
rotatory inertia on lateral vibra-  
tions of transversely isotropic  
plates 989
- Wu, J.  
Laboratory studies of wind-wave  
interactions 499  
A multiple purpose optical instru-  
ment for studies of short steep  
water waves 3210
- Wu, J. M.  
Some characteristics of an electric  
discharge in a supersonic gas stream 2315
- Wu, K. C.  
Electrode indentation criterion for  
resistance spot welding 3655
- Wu, M. Y.  
See Desoer, C. A. 2505
- Wu, S. M.  
See Wang, K. K. 3529  
Saxena, U. K. 5312  
Wang, K. K. 6173  
Tsao, K. C. 6176

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Wu, S. T.  
Radiative heat flux for an optically thin gas 1351  
Kinetic theory of macroscopic transport phenomena in multi-fluid systems 7388
- Wu, T. H.  
See Timmerman, D. H. 6128
- Wu, T.-S.  
Behavior of liquid metal stream in a transverse magnetic field 615
- Wu, Y.-C. L.  
See Cassanova, R. A. 6356
- Wuerker, R. F.  
See Witte, A. B. 9747
- Wuest, W.  
Boundary layers in rarefied gas flow 456  
Stromungsmesstechnik: Lehrbuch für Aerodynamiker, Stromungsmaschinenbauer, Luftungs- und Verfahrenstechniker (Flow test techniques: Textbook for aerodynamicists, turbomachinery, ventilation and chemical engineers) 7372
- Wulf, K.  
See Linow, K.-J. 8020
- Wunderlich, W.  
On the calculation of shells of revolution with transition matrices 3407
- Wuthrich, W.  
Rigidity of a plate obtained by flattening a shallow shell 6884
- Wyatt, L. A.  
Low-speed measurements of skin friction on a large half-model slender wing 3762
- Wyganski, I.  
Two-dimensional turbulent jet in a uniform, parallel stream 1241  
Some measurements in the self-preserving jet 5575  
The two-dimensional mixing region 8113
- Wyer, A.  
On the conformal groups in the theory of relativity and their unitary representations 1617
- Wylie, E. B.  
See Zielke, W. 8139
- Y  
Yablonskaya, V. A.  
See Kargu, L. I. 8496
- Yadav, B.  
Note on the study of mechanical response in a piezoelectric composite transducer 9234
- Yaggy, P. F.  
Future rotorcraft research in the USA 6600  
See also McCroskey, W. J. 8910
- Yagi, T.  
On the relation between the shape of cirrus clouds and the static stability of the cloud level: Studies of cirrus clouds: Part 4 8369
- Yagihashi, A.  
See Ogura, Y. 9803
- Yagoda, H. P.  
See Boley, B. A. 1354
- Yagolkovskii, S. N.  
Effect of the adhesion of an elastic layer to an underlying base on the design of superimposed beam 6879
- Yahya, S. M.  
Aerodynamic losses in partial admission turbines 506  
Some tests on partial admission turbine cascades 7354
- Yaji, S.  
See Kaga, H. 3526
- Yakimov, V. V.  
See Ershov, N. S. 1308
- Yakimova, K. S.  
Vibrational displacement of a two-mass oscillatory system 9423
- Yakir, R. I.  
See Groman, M. B. 3236
- Yakovlev, A. I.  
See Travkin, Yu. I. 5648
- Yakovlev, A. V.  
See Razorenov, V. F. 9495
- Yakovlev, B. N.  
See Shevlyakov, Yu. A. 9330
- Yakovlev, D. P.  
See Azarkin, V. A. 224
- Yakovlev, S. G.  
See Tulinov, V. F. 4074
- Yakovlev, V. F.  
See Popov, E. D. 6647  
Kononenko, V. S. 7541
- Yakovlevskii, O. V.  
Spreading of a turbulent jet impinging on a flat surface 7252
- Yakuba, S. I.  
See Danilov, V. L. 8349
- Yakubenko, A. E.  
See Paskonov, V. M. 4792
- Yakubovich, V. A.  
Adaptive systems with multistep goal conditions 5960
- Yakushev, V. V.  
On the measurement of the polarization relaxation time in a shock wave 3090
- Yalamov, Yu. I.  
Calculation of the diffusion slip velocity of a binary gas mixture 5630
- Yamabe, M.  
Index method for pumping operation of reversible pump-turbine 1278
- Yamada, G.  
See Irie, T. 2021
- Yamada, H.  
Precise determination of the solitary wave of extreme height on water of a uniform depth 497
- Yamada, M.  
Elastoplastic bending deflections of reinforced concrete columns and beams: One way bending under axial force 7127
- Yamada, T.  
See Tamate, O. 5988
- Yamada, Y.  
Viscous frictional moment between eccentric rotating cylinders when outer cylinder rotates 5474  
Pressure drop measurements of the flow through eccentric cylinders with rotating inner cylinders 7201  
Studies on the statistical aseismic safety of relatively long period structures 9605
- Yamagata, Y.  
A rotational viscometer capable of precise measurement at very low rate of shear 6305  
Torque exerted on a cylinder by viscous flow between non-coaxial cylinders 7592
- Yamaguchi, H.  
Two extremum theorems and their applications for the plastic rigid analysis in soil mechanics 5296
- Yamaguchi, I.  
Application of holographic interferometry to the measurement of Poisson's ratio 2780  
See also Kato, S. 6092
- Yamaguchi, S.  
See Tanishita, I. 4714
- Yamaguchi, U.  
The number of test-pieces required to determine the strength of rock 8697
- Yamaguchi, Y.  
See Yamabe, M. 1278
- Yamakawa, N.  
Foreshocks, aftershocks and earthquake swarms: Part V. Distribution of time intervals between consecutive shocks in the initial and later stages of aftershocks activity 4922
- Yamaki, N.  
Influence of prebuckling deformations on the buckling of circular cylindrical shells under external pressure 1813
- Yamamoto, K.  
Heat transfer from a circular cylinder in a rarefied gas flow 9674
- Yamamoto, M.  
Theoretical analysis of new rheometers 6294
- Yamamoto, N.  
See Iwatsuki, M. 278
- Yamamoto, T.  
On the vibrations of a shaft carrying an unsymmetrical rotor 9440  
See also Ohtaka, K. 7824
- Yamamoto, Y.  
Theory of stress concentration of two normally intersecting cylindrical shells 1774  
An intrinsic theory of a Cosserat continuum 5986  
Buckling strength of metal lining of a cylindrical pressure vessel 7797  
Considerations of a stability criterion for creep buckling 8598

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Yamanouchi, T.  
Shear characteristics of such granular soil as shirasu: Collapsible granular soil of volcanic product 7874
- Yamanouchi, Y.  
Processing scheme for the estimation of frequency response function of ship in waves 3464
- Yamasaki, T.  
Elasto-plastic analysis of continuous arches and frames with arch members 1128
- Yamashita, A.  
Methods of continuous particle sampling by aircraft 7585
- Yamashita, T.  
See Metzger, D. E. 2223
- Yamazaki, R.  
On the theory of unsteady propeller forces 4082
- Yanai, M.  
Axially symmetric meridional motions in the baroclinic circular vortex: A numerical experiment 4070
- Yanes, Kh. I.  
See Voldek, A. I. 9085
- Yang, A. T.  
Displacement analysis of spatial five-link mechanisms using (3X3) matrices with dual-number elements 2029  
Analysis of an offset unsymmetric gyroscope with oblique rotor using (3X3) matrices with dual-number elements 4207
- Yang, C. H.  
See Gray, B. F. 2354
- Yang, H. T. Y.  
A nonlinear analysis of the rotational stiffness of a nuclear stream generator foundation 4482
- Yang, J.-N.  
Numerical Fourier transform in random vibration 1632  
See also Shinozuka, M. 4307
- Yang, K.-T.  
See Kelleher, M. D. 6492
- Yang, W. H.  
On an integral equation solution for a plate with internal support 6033
- Yang, W.-J.  
See Yeh, H.-C. 2256  
Goldstein, M. E. 6394  
Yeh, H.-C. 6674  
Tokuda, N. 7455  
Yeh, H.-C. 8341  
Chan, K. S. 9722
- Yano, T.  
See Miyanami, K. 9280
- Yanovskii, A. K.  
See Gurvich, I. I. 4059
- Yanovskii, Yu. G.  
Pendulum instruments for studying viscoelastic characteristics of polymer systems: Survey 3372
- Yanta, W. J.  
See Lee, R. E. 455
- Yantovskii, E. I.  
Effect of the nozzle expansion ratio for an ionized gas on the specific power of an MHD generator 7493
- Yao, J. C.  
Long cylindrical tube subjected to two diametrically opposite loads 7698  
Buckling of elliptic cylinders under normal pressure 7796
- Yao, J. T. P.  
See Kasiraj, I. 7150
- Yao, S. T.  
Transcutaneous measurement of blood flow by ultrasound 9217
- Yarema, S. Ya.  
Impact fatigue strength of cast and wrought steel 35 at room and sub-zero temperatures 1939
- Yarin, L. P.  
See Vulis, L. A. 3027
- Yarkho, S. A.  
See Mikhailov, A. I. 2234
- Yarmulnik, F. V.  
See Tseitlin, A. A. 4259
- Yaroslavsky, A. I.  
See Vasileva, R. P. 4836
- Yashcheritsyn, P. I.  
Increasing the life of antifriction bearings by work hardening 3238
- Yashin, A. I.  
Filtering a discontinuous Markov process with unknown probability characteristics in the presence of additive noise 6808  
Filtering of nonstationary processes with account taken of observational costs 9297
- Yashin, A. V.  
See Gvozdev, A. A. 2593
- Yashin, V. I.  
Stability of plasma with anisotropic pressure in the quasi-hydrodynamic approximation 3942  
See also Aleksin, V. F. 3945
- Yashkov, Yu. K.  
See Morozov, B. M. 6288
- Yaskevich, E. P.  
Additional aerodynamic forces and moments acting on a solid of revolution, twisted with respect to the axis of symmetry in a free-molecular flow 8090
- Yasovskii, S. R.  
Determination of the strength of glued joints during cyclic loading 3659  
Fatigue strength of metal joints bonded with cold-setting epoxy adhesives 3660
- Yastrebov, V. D.  
See Khoroshavtsev, V. G. 1467
- Yasuda, T.  
Temperature dependence test of extensional, elastic wave velocity and of Young's modulus using the ultrasonic standing wave detection method 1970
- Yasulaitis, A. I.  
Investigation of nonlinear filters of the same class 52
- Yasutomi, Z.  
See Nakatani, H. 9105
- Yatsunovich, M. S. M.  
Aerodynamics of the helicopter MI-4 3759
- Yavin, Y.  
The optimal control of a distributed parameter system 5049
- Yazaki, A.  
Propeller design charts of AU-type propeller series of large area ratio 5864
- Ybarrondo, L. J.  
See Cowling, P. W. 6467
- Yeager, R. R.  
Nomograph construction methods 7636
- Yeakley, L. M.  
See Lindholm, U. S. 313
- Yefimov, V. V.  
Experimental study of the field of wind velocity over waves 9977
- Yefremtsev, V. A.  
See Elperin, I. T. 2275
- Yeh, C.  
Scattering by liquid-coated prolate spheroids 4017
- Yeh, G. C. K.  
A comparison of various elasticity formulations valid for all admissible values of Poisson's ratio 2564
- Yeh, H.-C.  
Analysis of laminar film boiling in boundary layer flows with appreciable radiation 2256  
Dynamics of bubbles moving in liquids with pressure gradient 6674  
Dynamics of a gas bubble moving in an inviscid liquid subjected to a sudden pressure change 8341
- Yeh, W. W.-G.  
Moisture movement in a horizontal soil column under the influence of an applied pressure 707
- Yelon, W. B.  
See Jones, E. 1501
- Yen, B. C.  
Stability of slopes undergoing creep deformation 6153  
Dynamic equations for steady spatially varied flow 8027
- Yen, C.-I.  
Effects of viscous sublayer on dispersion 7173
- Yen, H. H.  
See Pitts, D. R. 1362
- Yen, J. T.  
Kinetic theory of partially ionized gases 9075
- Yepinatyeve, A. M.  
Refracted and reflected waves in the Earth's crust 2411  
See also Cherveni, V. F. 6115
- Yerazunis, S.  
See Kunz, H. R. 3884
- Yeroshenko, V. M.  
Analysis of ablation of solids in supersonic flow 3021

- Yettram, A. L.  
A direct matrix method for the elastic stability analysis of plates 1805
- Yevtushenko, Yu. G.  
Motion of artificial satellites in the Earth's gravitational field 4000
- Yew, C. H.  
On overall deformation of a homogeneous isotropic elastic porous medium 867  
The strain-rate effect and the incremental plastic wave in copper 1036
- Yih, C.-S.  
Note on eigenvalue bounds for the Orr-Sommerfeld equation 4574  
Three-dimensional motion of a liquid film induced by surface-tension variation or gravity 5475  
Fluid mechanics: A concise introduction to the theory 7182  
See also Fung, Y. C. 8404
- Yim, B.  
Analyses of waves and the wave resistance due to transom-stern ships 4077
- Yin, F.  
Peristaltic waves in circular cylindrical tubes 10017
- Yin, Y. K.  
See Sichel, M. 3697
- Yogananda, C. V.  
Influence lines for bending under a ring load of a free shell, a shell embedded in a soft medium and a shell containing a soft core 3402  
Analytical solution for a shrink-fit problem 4239
- Yokobori, T.  
A criterion for unstable elastic-plastic fracture based on energy balance considerations 1921  
An interdisciplinary approach to fracture and strength of solids 3538  
Effect of elastic-plastic stress distribution near the crack tip on the nucleation theory of fatigue crack propagation 6197  
A kinetic theory of fatigue crack propagation 9529
- Yokoi, M.  
See Oyane, M. 1070
- Yokoo, Y.  
Numerical analysis of elastic-plastic deformation of simply supported rectangular plates 1762
- Yokoya, S.  
See Katto, Y. 1363
- Yokoyama, O.  
Measurements of wind fluctuations by a vane mounted on the captive balloon cable 6714
- Yonetsu, S.  
See Inazaki, I. 2699  
Inazaki, I. 4311  
Inazaki, I. 6174
- Yonezawa, M.  
Aerodynamic characteristics of propeller-wing-flap systems 1251  
Characteristics of roll-damping of propeller-wing system in transitional flight region 7332
- Yong, R. N.  
See Savage, S. B. 5833
- York, T. M.  
Stress dynamics in high speed piezo-electric pressure probes 7099
- Yoshida, A.  
Electron microscopic observations of surface-rolled mild steel during fatigue 1929
- Yoshida, H.  
See Fukumoto, Y. 1979
- Yoshida, K.  
See Kamimoto, G. 5524  
Matsushita, T. 8268
- Yoshida, S.  
See Kiritani, M. 5132
- Yoshie, T.  
Studies of the nonequilibrium transonic flow through a nozzle 6359
- Yoshikawa, H.  
See Sata, T. 1968
- Yoshikawa, K. K.  
An improved method of designing and calculating the minimal wave drag configuration by supersonic and moment-of-area rules 8930
- Yoshikawa, S.  
See Ohga, J. 1474
- Yoshikawa, T.  
See Shimada, H. 2819
- Yoshikawa, Y.  
See Nisitani, H. 7063
- Yoshiki, M.  
Matrix method of analysis of ship structure: Part 2 5379
- Yoshimoto, I.  
See Kasei, S. 3523
- Yoshimoto, K.  
Simulation of man-automobile systems by the driver's steering model with predictability 4131  
Manual control of multivariable systems 5024
- Yoshimura, N.  
See Kawai, T. 172  
Yoshiki, M. 5379
- Yoshioka, K.  
Laminar free convective heat transfer to supercritical fluids over the transposed critical point by perturbation method 6491
- Yoshioka, Y.  
See Okada, K. 1990
- Yoshizawa, A.  
Unsteady viscous flows past a semi-infinite flat plate 3688  
Viscous flow near the trailing edge of a semi-infinite flat plate set in the middle of a moving channel 8039  
On the skin friction near the trailing edge of a flat plate 8040
- Yosioka, K.  
See Hasegawa, T. 4879
- Young, A. D.  
See Smith, P. D. 2122
- Young, C. W.  
Depth prediction for earth-penetrating projectiles 1889
- Young, D. F.  
Some experiments on the effect of isolated protuberances on flow through tubes 756  
See also Predebon, W. J. 2049
- Young, D. H.  
See Timoshenko, S. 143  
Altman, W. 2639
- Young, F. J.  
See Rikoski, R. A. 7489
- Young, F. M.  
Time-temperature charts for one-dimensional conduction with uniform internal heat generation 9784
- Young, J. W.  
See Snyder, R. G. 3241
- Young, M. C.  
Flexibility influence functions for curved beams 1754
- Young, N.  
See Reno, R. 1579
- Young, P. C.  
Process parameter estimation 793
- Young, W. C.  
An automated process for three-dimensional photoelastic analysis 300
- Youngdahl, C. K.  
On the completeness of a set of stress functions appropriate to the solution of elasticity problems in general cylindrical coordinates 87
- Yovanovich, M. M.  
See Cooper, M. G. 3858
- Yu, C. W.  
See Baker, A. L. L. 4474
- Yu, H. S.  
See Sparrow, E. M. 7275
- Yu, K.-H.  
See Buchanan, G. R. 985
- Yu, W.-M.  
See Fejer, J. A. 2304
- Yu, Y.-Y.  
See Grossman, P. L. 1839
- Yudin, V. M.  
See Zamula, G. N. 4739
- Yudintsev, Yu. N.  
See Bulygina, E. V. 3765
- Yuen, M. C.  
See Goedde, E. F. 8137
- Yuferev, V. S.  
A parametric method for laminar boundary layer calculations in magnetohydrodynamics 9068
- Yugay, O. I.  
See Basina, I. P. 9845
- Yukawa, N.  
See Imura, T. 2614
- Yung, S. C.  
Free-convection heat transfer from an inclined heated flat plate in air 2240
- Yura, J. A.  
Ultimate load tests on braced multi-story frames 7133

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Yurchak, R. P.**  
Equipment for measuring the thermal conductivity of electrically conductive materials 2968
- Yureva, A. A.**  
A thermoelastic problem for an orthotropic plate with openings which are nearly elliptical 5811
- Yurgenson, R. I.**  
See Sovetov, B. Ya. 2540
- Yurkov, S. K.**  
See Protskii, N. E. 4459
- Yurlova, E. V.**  
See Povarnitsyn, M. S. 2246
- Yushmanov, E. E.**  
See Kanaev, B. I. 4810
- Yusibova, A. D.**  
See Agaev, N. A. 5465
- Yusupov, R. M.**  
See Rozenvasser, E. N. 5005
- Z**
- Zabelin, A. I.**  
Investigating the water conditions in a single-loop nuclear plant 3920
- Zabolotnyi, L. V.**  
See Fedorchenko, I. M. 4966
- Zaborov, V. I.**  
See Gorenshstein, I. V. 8312
- Zabrodskiy, S. S.**  
See Nikitin, V. S. 2277
- Zachmanoglou, E. C.**  
See Dunninger, D. R. 2464
- Zadoff, L. N.**  
Resistive instabilities of a viscous fluid with horizontal boundary 3938
- Zadayan, M. A.**  
Some solutions of the equations of plastic flow of an anisotropic medium 6016
- Zagorskii, T. Ya.**  
Cauchy's problem for the system of differential equations of the theory of thermoelasticity 4032  
Cauchy's problem for the system of equations of the theory of thermoelasticity 4033
- Zagustin, K.**  
Turbulent flow over moving boundary 3785
- Zahn, J. J.**  
Residual stresses in curved laminated wood beams 9368
- Zahorski, S.**  
Instability depending on elastic properties of fluids in plane steady shearing flows 6303  
Contribution to instability problems for viscoelastic fluids flowing down an inclined plane 8822
- Zahradka, J.**  
A quasi-harmonic oscillation of a drive system with Cardan shafts 6083
- Zaidel, R. M.**  
Effect of upstream density variation on the motion of a shock wave 4592
- Zaidman, E. S.**  
Natural frequency of a pendulum-damped torsional system 4316
- Zaitsev, G. G.**  
See Barabanov, V. N. 7939
- Zaitsev, G. Z.**  
Investigation of the flexural fatigue strength of the teeth of toothed wheels using models 4409
- Zak, M. A.**  
On the loss of stability of the shape of an ideally flexible string 5140
- Zak, P. S.**  
The contact load-carrying capacity of worm gearing 7155
- Zaker, T. A.**  
Dynamic thermal shock in hollow spheres 2394
- Zakharova, E. A.**  
See Labuntsov, D. A. 1526
- Zakirov, G. Sh.**  
Computer synthesis of a transmission hinged four-bar mechanism by the method of quadratic approximating functions 3633  
Accuracy of reproducing a given function in the computer synthesis of a transmission hinged four-bar mechanism according to the quadratic approximation method 5424  
Synthesis of a guiding hinged four-bar mechanism by computer 6276
- Zakirov, G. V.**  
Equations of equilibrium of a conical sandwich shell with a filler of variable thickness 5187
- Zakrzhevskii, M. V.**  
Combined oscillations of a non-steady rotor and body 3467
- Zaleskii, V. K.**  
Stretching of a helicoidal shell of variable thickness 2634
- Zaletae, V. M.**  
Calculating the intrinsic radiation from the Earth on the surface of a space vehicle 3112
- Zamanov, T. A.**  
On an operator equation in Hilbert space 1622
- Zamula, G. N.**  
Certain inverse problems of heat transfer and radiation 4739
- Zamyatina, N. A.**  
Diffusion parameters of a turbulent jet 5573
- Zandbergen, P. J.**  
An application of the *N*-strip method of integral relations for analyzing the flow around a circular cone 8064
- Zandi, I.**  
See Krishna Murthy, V. R. 385
- Zanelli, S.**  
See Nencetti, G. 7209
- Zaretskii, E. M.**  
Effect of work-hardening on fatigue resistance of anodized aluminum 7068
- Zaretskii, Yu. K.**  
Calculation of the settlement of thawing soil 2740  
States of stress and strain in the neighborhood of a spherical underground cavity 7877
- Zaretsky, E. V.**  
See Dietrich, M. W. 2438
- Zaretsky, Yu. K.**  
See Tsytovich, N. A. 4338
- Zarghamee, M. S.**  
Minimum weight design of enclosed antennas 1981
- Zarkhin, V. I.**  
Piezoelectric-transistorized sensitive elements and microphones 9140
- Zarubin, A. G.**  
Boundary layer equation in the two-dimensional theory of ocean flows 5848
- Zarybnickiy, V.**  
Ejection of a flexible thread from a container due to the internal pressure 1752
- Zauderer, B.**  
Experimental study of nonequilibrium ionization in a linear MHD generator 3093
- Zawidzki, J.**  
Plane states of plastic media in non-orthogonal curvilinear coordinates 1742
- Zazimko, V. A.**  
See Belov, I. A. 7428
- Zbirohowski-Koscia, K. F.**  
Stress analysis of cracked reinforced and prestressed concrete thin-walled beams and shells 7967
- Zdravkovich, M. M.**  
Smoke observations of the formation of a Karman vortex street 2078
- Zee, C. -H.**  
Trajectories of satellites under the combined influences of low radial thrust and Earth oblateness 3098
- Zeiger, H. P.**  
See Arbib, M. A. 1642  
Arbib, M. A. 5004
- Zeitman, M. F.**  
Flexural vibrations of vertical rotors in a gravitational field 6949
- Zelenov, Yu. V.**  
See Grossman, O. I. 7948
- Zelenova, V. D.**  
See Shermazan, I. V. 9561
- Zelikson, A.**  
Geotechnical models using the hydraulic gradient similarity method 7010
- Zelisko, T.**  
On the transverse flexure of infinite strip containing infinite row of semicircular notches 1715  
Stresses in an infinite strip under tension or bending and containing an infinite row of semicircular notches 1716  
The stress distribution in wall-beam strip with circular opening 2573

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Zelisko, T. (*Continued*)  
 Photo-elastic investigation of rectangular plates with holes or notches due to tension 6213  
 Stresses induced by central bending in a long beam containing a circular annular inclusion 8520  
 Transverse flexure of the strip containing an infinite double row of circular holes 9335
- Zeller, J. R.  
 Analysis of dynamic performance limitations of fast-response 3336  
*See also* Batterton, P. G. 2524
- Zellmer, D. L.  
*See* Jirgal, G. H., Jr. 8383
- Zeman, E.  
 Fiber optics in medical engineering 2452
- Zeman, J. L.  
 A comment on complex structural response to random vibrations 7840
- Zemlyanskii, B. A.  
 Method of local similarity for a three-dimensional laminar boundary layer with pressure gradient 6384
- Zenc, M.  
 Comparison of Bal's and Knothe's method of calculating surface movements due to underground mining 1901
- Zenin, A. A.  
 Formal kinetic characteristics of the reactions accompanying the burning of a powder 3907
- Zenisek, A.  
*See* Kratochvil, J. 6890
- Zenkevich, Yu. V.  
 The behavior of calcium compounds in a once through supercritical boiler 3011
- Zenkovskaia, S. M.  
 The stability of a periodic solution of the Navier-Stokes equation 2084
- Zenow, P. I.  
*See* Konstantinow, M. S. 3347
- Zenter, R. C.  
*See* Depew, C. A. 9011
- Zerkle, R. D.  
*See* DesRuisseaux, N. 6502
- Zerlin, S.  
 Traveling-wave velocity in the human cochlea 4981
- Zevin, A. A.  
 On the stability of periodic motions in the presence of impacting masses 5213
- Zeytounian, R.  
 Numerical method in nonstationary flow of incompressible fluids 3690
- Zeytounian, R. Kh.  
 Wave phenomena in steady flows of a stratified inviscid fluid: Part 1, Theoretical model 2938
- ZeZula, R.  
 One-dimensional homogenized reactor with natural uranium and with flattened specific output 9856
- Zgorzelski, M.  
*See* Urbaniec, K. 7387
- Zgrablich, G.  
*See* Marchi, E. 6079
- Zhandarov, A. M.  
*See* Anisimov, V. D. 6618
- Zharkov, V. N.  
 Elementary theory of spheroidal vibrations of the Earth 4058  
 Harmonics of torsional oscillations of the Earth in the case  $n=1$  8355
- Zhartovskii, G. S.  
*See* Gorbunov, V. F. 7373
- Zhbakova, A. V.  
*See* Gusev, V. N. 7206
- Zhdan, V. Z.  
 Representation of the fundamental equations of shells of revolution in matrix form 9385
- Zhegalova, T. S.  
 Use of the instantaneous rotation poles for the kinematic analysis of mechanisms 2032
- Zhemchugov, V. N.  
*See* Pokrovskii, B. V. 3807
- Zherdev, E. P.  
*See* Kirillin, V. A. 8186
- Zhgenti, V. S.  
*See* Kalandiya, A. I. 8507
- Zhigulev, V. N.  
*See* Vertushkin, V. K. 9659
- Zhilinskaite, L. P.  
*See* Machyulis, A. N. 9030
- Zhilyukas, A. I.  
 Equation of the curve of plastic strain of metals during extension 140
- Zhinzher, N. I.  
*See* Bolotin, V. V. 5241
- Zhivoglyadov, V. P.  
 On application of stochastic approximation method in the identification problem 3325
- Zhukauskas, A. A.  
 Heat transfer and frictional resistance in a tube in subsonic flow of combustion products of propane in oxygen 2228  
*See also* Shlachyauskas, A. A. 8902  
 Shlachyauskas, A. A. 9808
- Zhukov, A. A.  
 Thermodynamic and structural factors determining the wear resistance of aluminum cast irons 1571
- Zhukov, V. B.  
 Calculating threaded joints operating at elevated temperatures 3651  
 Calculating the elasticity of components in a bolted joint 7164
- Zhukhovitskii, E. M.  
*See* Gershuni, G. Z. 1335
- Zhukova, L. A.  
 Mixing of gas jets near a wall 1190
- Zhukova, L. P.  
 On the theory of stationary meso-scale waves in the real terrestrial atmosphere 728
- Zhukovskii, M. V.  
 An apparatus for fatigue testing under simultaneous cyclic torsion and tension-compression: Exchange of experience 7094
- Zhukovskii, V. S.  
 Determination of stresses by the method of networks in components with orifices in the case of loads that are not self-balancing on the contour of some hole 9336
- Zhulin, N. M.  
 Effect of drive parameters on dynamic loads in chain conveyers in steady conditions 9607
- Zhumabekov, L. Zh.  
 Note on a problem in heat and mass transfer 1366
- Zhunusov, T. Z.  
 Earthquake-safe of prestressed concrete members 1998
- Zhuravlev, Yu. I.  
 Methods of extending the range of operating modes of centrifugal compressors 8151
- Zhuravleva, A. M.  
*See* Bogomolov, S. I. 9445
- Zhurek, Ja.  
*See* Nichiporovich, A. A. 6151
- Zhuzgov, D. N.  
*See* Dolginov, Sh. Sh. 7522
- Ziebold, T. O.  
*See* Bowman, H. F. 1358
- Ziegler, F.  
 Snap-through buckling of a visco-elastic von Mises truss in a random temperature field 1798  
 Wave systems in straight thin elastic compound rods with three segments of various impedance 3495  
 Mean waves in laminated random media 5273
- Ziegler, H.  
 Some developments in the theory of stability 956  
 On the plastic potential in soil mechanics 6134  
*See also* Chu, C.-W. 445  
 Sayir, V. M. 1737
- Zielinski, L.  
 Dynamics characteristics of combustion chamber of gas turbine 5713
- Zielinski, Z. A.  
 Strength limits for reinforced concrete beam subjected to bending and high shear 339
- Zielke, W.  
 Forced and self-excited oscillations in propellant lines 8139
- Zien, H. M.  
*See* Lessen, M. 4614
- Zienkiewicz, O. C.  
 Elasto-plastic solutions of engineering problems: "Initial stress," finite element approach 5104  
 The finite element method in structural and continuum mechanics: Numerical solution of problems in structural and continuum mechanics 5376  
*See also* Taylor, C. 7573

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Zierep, J.**  
Transonic flow with heat input  
Law of similarity for the effect of  
walls for all velocity ranges in  
channel flow 3717
- Zies, K. W.**  
The two-stringer symmetric plate-  
beam with straight and oblique  
(staggered) support points:  
Boundary perturbation method  
applied to an infinitely long  
system 6887
- Zigern-Korn, V. N.**  
*See* Freidin, A. S. 380
- Zigo, M.**  
A general numerical procedure for  
the calculation of cam profiles  
from arbitrarily specified accel-  
eration curves 1134  
A method of specifying the dimen-  
sions of cams 9609
- Zilitinkevich, S. S.**  
The use of profile observations to  
calculate vertical turbulent fluxes  
in the atmospheric boundary  
layer 4934  
On the computation of the basic  
parameters of the interaction be-  
tween the atmosphere and the  
ocean 7576  
The laws of resistance and of heat  
and moisture exchange in the  
interaction between the atmos-  
phere and an underlying surface 7580
- Zilova, T. K.**  
*See* Demina, N. I. 6229
- Ziman, Ya. L.**  
Determining spacecraft orientation  
from stellar photographs 6614
- Zimmerman, Z.**  
Analysis of the effect of strain hard-  
ening on central bursting defects  
in drawing and extrusion 9515
- Zimin, V. A.**  
*See* Shishov, A. D. 5618
- Zimmerman, A. W.**  
Nonsteady flow past duct junctures 9673
- Zimmerman, B. G.**  
*See* Fang, A. C. 1690
- Zimmermann, W.**  
*See* Vogel, U. 2786  
Klingenberg, H. 5749
- Zinger, N. M.**  
Investigation of the operational  
conditions of a group heating  
substation with two heat ex-  
changers in series 3888
- Zingone, G.**  
Statics and stability of the elastic  
equilibrium of second type for  
prismatic thin shells: Part 1 6041
- Zinn, B. T.**  
A theoretical study of nonlinear  
combustion instability in liquid-  
propellant rocket engines 3030  
*See also* Powell, E. A. 6524
- Zinn, J.**  
Motion of a newly formed plasma  
in a magnetic field 6581
- Zinovev, R. K.**  
Effect of the difference of deforma-  
tive properties of the soil and strain  
gauge on the recording of dynamic  
stresses 8673
- Ziobron, W.**  
*See* Oleszkiewicz, S. 5395
- Ziolkowski, J.**  
*See* Lipinski, J. 3153
- Zipalova, V. F.**  
Investigations of stability of a spher-  
ical dome for various loads and edge  
conditions with higher-order of ap-  
proximations 969  
*See also* Vorovich, I. I. 6066
- Zischinsky, U.**  
Rheology and rock mechanics:  
The geological point of view 7042
- Zisman, W. A.**  
*See* Bowers, R. C. 6721
- Zitko, J.**  
Generalization of the minimax  
method for calculation of the  
spectral radius of a matrix 8413
- Zitter, R. N.**  
Ultrasonic diffraction of light by  
short acoustic pulses 3141
- Ziugzda, J.**  
*See* Zukauskas, A. 7403
- Ziv, M.**  
Two-spatial-dimensional elastic  
wave propagation by the theory  
of characteristics 4323
- Zlamal, M.**  
On some finite element procedures  
for solving order boundary value  
problems 7647  
A finite element procedure of the  
second order of accuracy 8447
- Zlatanowa, E.**  
Axisymmetric problem for incom-  
pressible elastic regions bounded  
by spherical surfaces 7699
- Zlochevskii, A. B.**  
Method for measuring the elasto-  
plastic deformations in zones with  
high stress gradients by means of  
resistance wire strain gages 1957  
Method for plotting strain diagrams  
using miniature strain gages 7926
- Zlotnikova, N. V.**  
Dynamic model of a clock in a mag-  
netic field 2554
- Zobachev, N. M.**  
*See* Vasileva, A. A. 6139
- Zoberbier, W.**  
The characteristic equations of the  
digital integrator 2481
- Zobnin, N. P.**  
Increasing the life of locomotive  
drive gears by plastic deformation 5434
- Zola, C. L.**  
Interplanetary probe missions with  
solar-electric propulsion systems 4787
- Zolotova, Sh. K.**  
*See* Shifrin, K. S. 733
- Zorowski, C. F.**  
Seam puckering as a mechanical in-  
stability phenomenon 8579
- Zorski, H.**  
Statistical theory of dislocations 2611  
*See also* Mossakowska, Z. 5124
- Zoteev, V. S.**  
Testing of sheet materials in draw-  
ing 1908
- Zotin, V. K.**  
Effect of the initial temperature on  
the expansion rate of a flame in a  
turbulent stream of a homogeneous  
mixture 6522
- Zozulya, V. D.**  
Device for recording wear on a fric-  
tion machine type MI-1M: Ex-  
change of experience 2444
- Zsutty, T. C.**  
Beam shear strength prediction by  
analysis of existing data 1117
- Zubarev, V. N.**  
*See* Vukalovich, M. P. 3845
- Zuber, I. E.**  
Monotonic stabilization of linear  
pulsed control systems 1656
- Zuber, N.**  
*See* Staub, F. W. 5686
- Zubkov, A. I.**  
*See* Glagolev, A. I. 8063
- Zubkov, S. I.**  
Rheological calculations of the  
time dependence of the stress in  
focal zones of earthquakes 7041
- Zubov, L. M.**  
Approximate theory of buckling of  
thin plates of semilinear material  
in case of affine initial deforma-  
tion 9411
- Zuchowski, A.**  
On a certain adaptable analog re-  
cording instrument 6813
- Zucker, R. D.**  
Lagally's theorem and the lifting  
body problem 9709
- Zuckerberg, F. L.**  
*See* Spar, J. 4949
- Zudans, Z.**  
Analyses of asymmetric stiffened  
shell type structures by the  
finite element method: Part 1,  
Flat rectangular elements 167  
Analysis of asymmetric stiffened  
shell type structures by the finite  
element method: Part 2, Six-  
degree-of-freedom model 168  
Survey of advanced structural de-  
sign analysis techniques 7104
- Zuk, J.**  
Design study of shaft face seal  
with self-acting lift augmentation:  
Part 1, Self-acting pad geometry 7157  
Investigation of isothermal, com-  
pressible flow across a rotating  
sealing dam: Part 2, Computer  
program 9652

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

- Zukauskas, A.**  
Teplootdacha v laminarom potoke  
zhidkosti (Heat transfer in lami-  
nar flow of fluid) 7403
- Zukhovitskii, S. I.**  
A problem of nonconvex program-  
ming 2483
- Zukoski, E. E.**  
See Fernandez, F. L. 2899
- Zuranski, J.**  
Wind load on building structures 7984
- Zvereva, F. G.**  
See Shcheglov, O. S. 1429
- Zvezdin, P. S.**  
See Boikov, N. A. 9834
- Zwaan, R. J.**  
On a kernel-function method for  
the calculation of the pressure  
distribution on a two-dimen-  
sional wing with harmonically  
oscillating control surface in sub-  
sonic flow 9091
- Zwahlen, B.**  
See Bazley, N. 3270
- Zwas, G.**  
See Abarbanel, S. 1630  
Abarbanel, S. 7242
- Zweben, C.**  
Tensile failure of fiber composites 1924
- Zweifel, O.**  
Bending stresses and pressure on  
cables with lined rollers and pulleys 7709
- Zyczkowski, M.**  
Optimal forms of a thin-walled  
closed cross section of a beam with  
a consideration of the stability  
conditions 7745  
See also Kowalski, A. 972  
Mrowiec, M. 2638  
Skrzypek, J. 3380  
Mrowiec, M. 4496  
Gajewski, A. 9406
- Zykov, S. A.**  
Increasing the reliability of con-  
densers and regenerative heaters  
in connection with the demand for  
more stringent water conditions of  
units 1382
- Zykoy, V. G.**  
Volume-polarization interaction of  
plasma in a magnetic multipole 1437
- Zypkin, J. S.**  
Theorie der linearen Impuls-systeme  
(Theory of linear impulse (sampled-  
data systems) 49
- Zysin, V. A.**  
Steam generator for high tempera-  
ture combined plants 4770  
Development of combined steam  
and gas turbine plants 6539
- Zyszkowski, W.**  
The transient temperature distribu-  
tion in one-dimensional heat-  
conduction problems with non-  
linear boundary conditions 2212  
See also Rafalski, P. 2976

# Subject Index to Applied Mechanics Reviews

Volume 23, January-December 1970

THE TABULATING EQUIPMENT USED FOR PRINTING THE INDEX HAS ONLY UPPER CASE LETTERS. FOR THIS REASON AN ASTERISK IS USED BEFORE AND AFTER THE SEE AND SEE ALSO WORDINGS. THE MAIN AND SUB-HEADINGS ARE DIFFERENTIATED BY INDENTATION. SUBHEADINGS IN THE SEE ALSO GROUPS ARE SEPARATED FROM THE MAIN HEADINGS BY COMMAS. FOR EXAMPLE \*SEE ALSO\* STREAM, NATURAL

## A

### ABLATION

693 1226 1389 1732 2126 3021 3738 3894 3895 4740  
5513 5698 5701 6511 6512 6517 7408 7438 9025 9027  
9028 9029 9030 9043

### ABSORPTION

5697 5697 9007 9307

### ABSORPTION OF SOUND--- \*SEE\* SOUND, ABSORPTION

### ACCELERATION MEASUREMENT

3630

\*SEE ALSO--- PIEZOELECTRICS

### ACOUSTIC PROPERTIES OF MATERIALS

3131 3133 6242

### ACOUSTICS

496 1619 1961 2375 2412 3128 3133 3144 3145 3146  
3712 3873 4011 4056 4872 4878 4931 5801 6649 7531  
7542 8904 9227 9816 9932

\*SEE ALSO--- BOUNDARY LAYER, NOISE -- INSTRUMENT  
ENGINEERING, ACOUSTICAL -- NOISE -- SOUND --  
VIBRATION -- WAVES, ACOUSTIC

### ADAPTIVE SYSTEMS

821 822 823 824 1670 2520 2545 4196 4201 5051  
5776 5959 5960 7671 7690 8468 8485 9306 9307 9308  
9309 9310 9909

\*SEE ALSO--- AUTOMATIC CONTROL

### ADHESIVES

378 379 380 2596 3373 4374 4420 7169 7170 8011  
8818

### AERODYNAMIC COEFFICIENTS

480 482 484 485 486 2097 2149 2159 2881 2915  
3758 3763 3764 4628 4632 4635 4642 4953 5846 6407  
7324 7325 7328 8055 8920 8924

### DRAW COEFFICIENT

2154 2917 2919 2924 2925 2926 3765 3767 3768 5587  
5588 5589 8070 8929 8930 9711

### LIFT COEFFICIENT

483 487 9095 9709

### AERODYNAMIC COEFFICIENTS \*CONTINUED\*

#### STABILITY DERIVATIVES

1247 2151 2157 2160 2916 2921 2923 3772 5584 8129  
8169 8927 9096 9660

#### AERODYNAMIC HEATING

1303 2111 2918 4586 6412 9706  
JANUARY FEATURE ARTICLE

#### AERODYNAMIC INTERFERENCE

432 1251 2915 2919 2923 2925 3830 4633 4636 5590  
6413 7328 7374 8130 8922 8925 8926 9707 9708 9710  
9712 9714

#### BASE PRESSURE, MULTIPLE JET

1253

#### GROUND EFFECT

2152 2153 5592 6603 8132 8928 9105

#### WING/TAIL

1245 5585

\*SEE ALSO--- GROUND EFFECT MACHINES

#### AEROELASTICITY

5755 8125  
FEBRUARY FEATURE ARTICLE

#### DYNAMIC

187 620 5233 5756 5764 7818 8289 8922 9895 9900

#### PANELS

3476 8282 8283

#### STATIC

1246 8282 9895

\*SEE ALSO--- FLUTTER -- GUST LOADS --

HYDROELASTICITY -- OSCILLATIONS IN FLUIDS -- WINGS

#### AERONAUTICS

2155

#### AEROSOLS

702 703 1522 2402 3167 3169 3170 4041 4043 4048  
4943 5837 6672 9957 9958 9959 9961 9969

#### AEROTHERMOACOUSTICS

3751 5799

#### AEROTHERMOCHEMISTRY

469 1218 1221 2905 3749 3825 5531 5532 5555 7258  
7259 7260 7299 7310 8078 8098 9662 9690

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## AEROTHERMOCHEMISTRY \*CONTINUED\*

FROZEN FLOW  
3712 4618 7237 7288

NON-EQUILIBRIUM FLOW  
433 434 435 1220 1222 2092 2104 2904 3712 3750  
3831 3834 3835 4897 4605 5521 5524 5748 6352 6359  
7257 8068 8082 8887 8889 8893 8894 9858

REACTION RATES  
2189 3828 9758

## AEROTHERMODYNAMICS

436 1206 1210 1214 2101 2102 2103 2870 3702 3708  
3711 3713 4579 4587 4592 4598 5508 6362 6378 8882  
9649 9664

\*SEE ALSO\*--- AERODYNAMIC HEATING -- HEAT TRANSFER,  
BOUNDARY LAYER

## AGING

121 884 1067 3377 7726 8539

AIRCONDITIONING--- \*SEE\* REFRIGERATION,  
AIRCONDITIONING

## AIRCRAFT STRUCTURES--- \*SEE\* STRUCTURES, AIRPLANE

## AIRFOIL CASCADES--- \*SEE\* CASCADES OF AIRFOILS

## AIRFOIL CHARACTERISTICS

479 3717 8065

PRESSURE DISTRIBUTION  
1250 2922 6405 6408 6409 8919

\*SEE ALSO\*--- AERODYNAMIC COEFFICIENTS -- STALLING

## AIRFOIL THEORY

1623 2915 3758 4628 5583 5611 8054 8920

## COMPRESSIBLE FLOW

1222 2089 2090 2873 3698 3963 8126 9704

## INCOMPRESSIBLE FLOW

1246 1249 2148 2150 2916 3764 5586 8127 8921 8952  
9707

\*SEE ALSO\*--- WINGS

## AIRPLANE

1090 1371 2980 3760 3977 7326 8256

## CONTROL

2930 6409 6810 9287 9717

## DESIGN

2334 2929 3770 5325 8456 9893

## DYNAMIC LOADS

213 2158 2160 2553 2731 2931 6602 9717 9719 9720  
9901

## HANDLING QUALITIES

2490 3836 3837 6417 6419 7329

## LATERAL STABILITY

1254 2553 3980 4643 4644 5593 6419 6420 6810 6812  
7332 9900

## LOADS

8602 8128 8737 9708 9832

## LONGITUDINAL STABILITY

1254 1255 2156 2553 3980 5593 7331 8931 9714

## SPIN RECOVERY

1256

\*SEE ALSO\*--- AERODYNAMIC COEFFICIENTS--  
GLIDERS -- HIGH LIFT DEVICES --

## AIRPLANE \*CONTINUED\*

\*SEE ALSO\*--- \*CONTINUED\*

JET FLAPS -- LANDING AND TAKEOFF -- NOISE,  
AIRCRAFT -- PERFORMANCE, AIRPLANES -- STRUCTURES,  
AIRPLANE -- VIBRATION, AIRPLANES

## AIR PREHEATERS

3890

## AIRSHIPS--- \*SEE\* BALLOONS AND AIRSHIPS

## ALGEBRAIC EQUATIONS--- \*SEE\* EQUATIONS, ALGEBRAIC

## ALUMINUM

138 142 273 884 900 1069 1070 1727 1936 2012  
2435 2806 3375 3376 3548 3555 3556 3912 4376 4404  
4412 4421 4423 5115 5116 5132 5310 5334 5366 6015  
6198 7066 7068 7732 7739 7903 7906 7928 7937 7978  
9348 9357 9516 9528

ANALOG COMPUTERS--- \*SEE\* COMPUTING TECHNIQUES,  
ANALOG

## ANALOGIES

32 8877

## ELECTRICAL

34 2082 2487 2488 2492 2920 4164 4165 5002 8452  
8453 8921 9265

## FLUID MECHANICS

9266

## HEAT TRANSFER

546 4724

## HYDRAULIC

4671 5507

## SOLID MECHANICS

30 31 1744 9264 9359

## ANALYSIS, NUMERICAL--- \*SEE\* NUMERICAL ANALYSIS

## ANEMOMETER

512 513 2179 4680

## HOT-WIRE

775 1289 1291 2887 3809 3810 4613 4730 6404 7320  
7321 9701

\*SEE ALSO\*--- TURBULENCE, MEASUREMENTS --  
VELOCITY MEASUREMENT

## ANISOTROPIC BEAMS--- \*SEE\* BEAMS, ANISOTROPIC

## ANISOTROPIC MEDIA

136 888 1739 2594 5114 6015 6016 6017 7731 7732  
7735 7869 7884 9356

## ANISOTROPIC PLATES--- \*SEE\* PLATES, ANISOTROPIC

## ANISOTROPIC SHELLS--- \*SEE\* SHELLS, ANISOTROPIC

## ANTENNAS

219 1981 2339 9587

\*SEE ALSO\*--- TOWERS

APPROXIMATIONS--- \*SEE\* SERIES EXPANSION AND  
OTHER APPROXIMATIONS

## ARCHES AND VAULTS

325 883 915 1000 1127 1128 1727 2003 3405 3607  
4290 5386 8551 8552 8771 8778

\*SEE ALSO\*--- BUCKLING, ARCHES AND VAULTS

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## ARCS

2290 2312 5623 9072

## JETS

613 1443 9028

## MAGNETICALLY CONSTRAINED

3091 4822 6546 6980 8269

## STABILITY

4834

## ARTIFICIAL SATELLITES

1556 4000 6497 6614 6618 7519 8303 9320 9321 9434  
9458

## GEODETIC SATELLITES

4817 6700 8358

## HIGH ALTITUDE ATMOSPHERE

4941

## MANNED SATELLITES

2393 5773 8305 8306

## WEATHER SATELLITES

4939 4947

\*SEE ALSO\*--- CELESTIAL MECHANICS -- ORBIT  
MECHANICS -- RADIATION PRESSURE -- REENTRY --  
RENDEZVOUS -- SATELLITES

## ASTRONAUTICS

1455 4851 7514 9911

## MANNED MISSIONS

8308

## SPACE HAZARDS

5774

\*SEE ALSO\*--- ARTIFICIAL SATELLITES --  
ASTROPHYSICS -- CELESTIAL MECHANICS --  
INTERPLANETARY PROBES -- LUNAR MISSIONS --  
MISSILES -- ORBIT MECHANICS -- RADIATION  
PRESSURE -- REENTRY -- RENDEZVOUS -- ROCKETS --  
SPACE NAVIGATION AND GUIDANCE -- SPACE POWER --  
SPACE VEHICLE DESIGN -- SPACE VEHICLE PROPULSION --  
SPACE VEHICLE STABILIZATION

## ASTROPHYSICS

## GALACTIC SYSTEM

3096 5855

## SOLAR SYSTEM

5842 9166 9168

\*SEE ALSO\*--- ASTRONAUTICS -- CELESTIAL  
MECHANICS -- ORBIT MECHANICS

## ATMOSPHERE--- \*SEE\* METEOROLOGY, ATMOSPHERE

## ATOMIZATION--- \*SEE\* SPRAYS

## ATTENUATION OF SOUND--- \*SEE\* SOUND, ATTENUATION

## AUTOMATA--- \*SEE\* LEARNING SYSTEMS, AUTOMATA

## AUTOMATIC CONTROL

28 787 789 3309 3331 5938 6797 7652 8457 9268

## ANALOG COMPUTER CONTROL

7668

## COMPENSATION

2535 6787 7656 9271

## DESCRIBING FUNCTIONS

46 70 1644 1650 2500 3636 4174 5940

## AUTOMATIC CONTROL \*CONTINUED\*

## DESIGN AND SYNTHESIS

786 1641 1653 1667 1686 2511 2530 3313 3336 4167  
4639 5009 5018 6540 6784 6796 7385 7672 8466 8482  
9286 9300

## DIGITAL COMPUTER CONTROL

55 56 817 2541 3827 3829 7667 7669 7674 9290  
9296

## DISCRETE AND SAMPLED DATA SYSTEMS

49 53 70 795 802 1640 1662 2515 2521 3326  
4173 4176 5008 5932 6792 6793 6794 7661 7666 8470  
9272

## DISTRIBUTED PARAMETER SYSTEMS

791 796 4177 9269 9273

## ELECTRICAL COMPONENTS

823 2540 3995 4188 5006 5957 6811 7677 9292 9293  
9295

## ELECTROMECHANICAL COMPONENTS

74 823 2522 3995 5031 8474

## FREQUENCY DOMAIN TECHNIQUES

37 41 792 801 805 822 3324 5018 6785 6786  
6796 7660 8461 8462 9273 9282

## GRAPHICAL TECHNIQUES

46 1649 1659 2500 2507 2525 3314

## HYBRID SYSTEMS

786 2541 7668

## HYDRAULIC COMPONENTS

2500 2526 3334 3336 3635 4186 4187 6809 7675 9283  
9291

## IDENTIFICATION

48 793 794 795 800 825 1661 1682 2501 2512  
2513 2514 2525 3312 3325 4169 4170 4171 4172 4173  
4178 5932 6791 6792 7663 7664 7665 8459 8462 9280  
9281

## LARGE SYSTEMS

4155 5958 6526 8479

## MECHANICAL COMPONENTS

808 2485 2524 3330 6809

## MODELING

40 1651 2515 2524 3337 5019 5037 6787 9275

## MODULATED SYSTEMS

70 809 7661 9272 9285

## MULTIVARIABLE SYSTEMS

37 1664 3311 3328 4170 4171 4184 4185 5016 5022  
5023 6796 7670 7687

## NONLINEAR SYSTEM ANALYSIS

39 46 1650 2497 2502 3314 3316 3328 3336 4172  
4174 5924 5926 5934 5935 6783 6785 6786 7660 8436  
8464 9275 9277

## NONLINEAR SYSTEM DESIGN

812 1644 1653 1654 2493 3337 4185 6793 7689

## NONLINEAR SYSTEM RESPONSE

42 1644 1646 3326 3334 5929 7658 8463 9274

## ON-OFF AND RELAY SYSTEMS

49 50 788 1668 1671 2498 3320 3322 5925 6783  
7659 7678 8469

## PERFORMANCE

1647 2502 3313 3329 3332 6794 6806 7671

## PHASE LOCKED LOOPS

5011

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## AUTOMATIC CONTROL \*CONTINUED\*

PNEUMATIC COMPONENTS  
6799

PROCESSES  
36 806 1665 2334 3294 3332 4154 7663 7667 7674  
9036 9289

RELIABILITY  
1683 2493 8460 9287

SENSITIVITY  
790 803 2494 2495 2511 2540 3311 3318 3324 3635  
5005 5022 5922 6784 6787 7659

STATE SPACE TECHNIQUES  
1640 1642 2508 2512 3311 4176 4184 5016 5023 6792  
7656 7657 9276

TIME DOMAIN TECHNIQUES  
44 2494 8461 9282

TIME VARYING SYSTEMS  
38 786 4175 5011 5922 7651 8465 8466

\*SEE ALSO\*--- ADAPTIVE SYSTEMS -- BIOCONTROL --  
CONTROL STABILITY -- CYBERNETICS -- DATA  
ANALYSIS -- FLUIDICS -- GUIDANCE SYSTEMS --  
GYROSCOPES -- INSTRUMENT ENGINEERING --  
LEARNING SYSTEMS -- MAN-MACHINE SYSTEMS --  
OPERATIONAL METHODS -- OPTIMAL AUTOMATIC  
CONTROL -- SIMULATION -- STATISTICAL CONTROL  
THEORY -- TIME DELAY SYSTEMS -- TIME SHARING  
TECHNIQUES -- TOPOLOGICAL TECHNIQUES --  
VARIATIONAL METHODS, AUTOMATIC CONTROL --  
VIBRATION

AXLES  
6195

\*SEE ALSO\*--- SHAFTS

## B

BALANCING--- \*SEE\* VIBRATION, BALANCING

BALL BEARINGS--- \*SEE\* BEARINGS, BALL

BALLISTIC TRAJECTORY  
6611 6805

BALLISTICS  
2357 4863 8489 9923 9924

INTERIOR  
2087 2356 9853

RANGE  
3706 5622 5625 8887

TERMINAL  
5283

\*SEE ALSO\*--- DETONATION AND DEFLAGRATION --  
EXPLOSIVES -- IMPACT, PENETRATION --  
MISSILES -- PENETRATION -- PROJECTILES

BALLOONS AND AIRSHIPS  
2340

BASE FLOW  
1186 1197 2887 5515 6382 6416 8058

\*SEE ALSO\*--- WAKES, BASE FLOW

## BEAMS

80 85 124 145 178 334 337 907 918 1119  
1697 1698 1755 1972 1992 1995 2963 4228 4470 5137  
5139 6021 7142 8754 9365

ANISOTROPIC  
6078 7750

BEAM-COLUMNS  
321 1120 4469 6963

BOX  
344 4309 6875 7071 7106

CANTILEVER  
1103 4245 6081 6821 9248

COMBINED LOADING  
128 5989 6023 6028 6876 7725 7744 8765 9570

COMPOSITE  
149 150 4904 5144 7114 8760

CONTINUOUS  
911 2655 3420 5190 7807 8755 9572

CREEP  
3371 7962

CURVED  
88 914 916 917 1754 3389 3609 4225 4248 5069  
5082 5179 6028 7747 7749 7931 8550 9368 9369

CUTOUTS  
1715 1716 2573 2800 4246 5069 5989

DYNAMIC LOADING  
232 911 1041 1979 4293 4294 6078 6081 7848 7862  
9363 9367

INTERSECTING  
5136 6150

LARGE DISPLACEMENTS  
986 2619 7693 8547

MINIMUM WEIGHT  
7745

NONHOMOGENEOUS  
2622 2623 4247 4250 4320 5220 8520 8548

OPEN SECTION  
909 6025 6026 7746

PLASTIC DEFORMATION  
125 128 132 146 148 232 876 3389 3419 4293  
4294 5112 5138 7725 7729 7848 7862 7890

PRESTRESSED  
329 1983 1985 1990 1991 1998 2797 2798 4416 5392  
5394 5403 5404 6201 7967 7971 7973 8775 9585 9586

REINFORCED CONCRETE  
339 340 1121 1122 1756 1984 1986 1987 1988 1998  
3564 3594 3596 3597 3602 3603 4435 4476 5324 5381  
5392 5399 5400 6250 6254 7125 7127 7129 7964 7967  
8765 9585

THIN SECTION  
905 6023 6028 6877 6946 7745 9366

VARIABLE CROSS SECTION  
31 152 912 7626

\*SEE ALSO\*--- BUCKLING, BEAMS -- ELASTIC  
FOUNDATIONS, BEAMS -- ENERGY METHODS -- FATIGUE,  
BEAMS -- GIRDERS -- IMPACT, BEAMS --  
INFLUENCE LINES -- LIMIT DESIGN AND ANALYSIS,  
BEAMS -- RAILS -- STRUCTURES, CUTOUTS --  
STRUCTURES, STATICALLY INDETERMINATE --  
THERMOELASTICITY, BEAMS -- TORSION, BEAMS --

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## BEAMS \*CONTINUED\*

\*SEE ALSO\*--- \*CONTINUED\*

TORSION, SHAFTS -- VIBRATION, BEAMS -- WOOD,  
TIMBER AND PLYWOODBEARING CAPACITY--- \*SEE\* SOIL MECHANICS, BEARING  
CAPACITY

## BEARINGS

3226 4104 5237 5870 7988 8714 8811

## BALL

1135 2438 2442 3236 3238 4108 4913 4974 6732 7601  
9205 9206 9319

## COMPOSITE

6024

## DYNAMIC EFFECTS

1270 2437 3235 5875

## GAS LUBRICATED

2439 2440 3237 4105 4106 4973 5875 6728 6730 6731  
7596 7598 7599 8393 10008 10014

## HYDROSTATIC

2440 6729 7597 7598 9203 9204

## JOURNAL

747 1270 2432 2437 4095 4110 4971 4972 4973 5874  
6729 7595 7597 8392 9204 9617 10012 10013

## LIQUID LUBRICATED

5871 6727 8386

## POROUS METAL

4966 8390

## ROLLER

373 2441 4109 6288 7998 8802

## SLIDER

1576 4101 4103 5872 8384

## THERMAL EFFECT

3917 4107

## THRUST

1574 3236 3237 4107 7596 7599 8389 9203

## UNCONVENTIONAL-ELECTROSTATIC, MAGNETIC, ACOUSTIC

1578 1579 2030 6730 6733 6734 8804

## UNLUBRICATED

4108 6288

\*SEE ALSO\*--- FATIGUE, BEARINGS -- VIBRATION,  
BEARINGS

## BED

2275 4552 8842

## FLUIDIZED

575 1519 1521 2274 2399 2401 3164 4039 4040 4045  
4912 4915 5462 5487 6678 8243

## PACKED

555 3173 9022

## RIVER

407 1164 1165 1268 2839 2840 5462 5463 8037 8838  
9635\*SEE ALSO\*--- HEAT TRANSFER, FLUIDIZED BEDS --  
POROUS MEDIA, FLUIDIZED BEDS -- SEDIMENT TRANSPORT

## BELTS

4506 7830 7832 7988

\*SEE ALSO\*--- CABLES AND FLEXIBLE FILAMENTS --  
CHAINS

BENDING--- \*SEE\* UNDER MODIFIER

BENTS--- \*SEE\* FRAMES AND BENTS

## BIBLIOGRAPHY

1544

\*SEE ALSO\*--- UNDER MODIFIER

## BIOCONTROL

1590 1595 1597 2486 3261 3262 4129 4130 4131 5886  
6744 6747 7609 7610 7611 8410 8411 8412

\*SEE ALSO\*--- MAN-MACHINE SYSTEMS

## BIODYNAMICS

2445 3243 3244 8400

\*SEE ALSO\*--- HUMAN ENGINEERING -- VIBRATION, HUMAN

## BIOMATHEMATICS

1590 3245 4111 4125 5880 5881 5887 7606 9212 9216

\*SEE ALSO\*--- BIOMECHANICS

## BIOLOGICAL DATA PROCESSING

757 1593 1596 2448 3239 3260 6746 10025

## BIOMECHANICS

366 1596 2445 3243 3246 4111 4132 4133 5878 5881  
6745

## CARDIO-VASCULAR

374 757 1275 1589 1593 1596 2446 2448 2451 3248  
3251 3252 3254 3260 4120 4121 4124 5476 5882 5890  
6739 7605 8399 8402 8407 9215 9217 10018 10021

## CIRCULATION

756 758 1586 1587 1727 2449 2450 3247 3249 3250  
3252 3253 3255 4118 4119 4121 4125 4126 5451 5882  
5883 5885 6743 7606 8402 9211 9212 9216 10022

## HEAD

4113 4114 8398 10023 10027

## HEARING

1598 1599 1600 1602 2363 2373 2377 2447 4015 4867  
4875 4876 4981 5880 6630 6632 6742 7533 8315 9131

## LOCOMOTION

1583 4979 6737 6738 6744 8394 10024

## MEASUREMENTS AND EXPERIMENTAL TECHNIQUES

751 752 753 755 1584 1588 1591 1592 1594 2448  
2452 3239 3260 4113 4115 4116 4117 4127 4128 4979  
4983 4986 4987 5877 5879 6735 6746 6748 7605 7608  
8396 8403 9208 9213 9214 9215 9217 9218 10023

## MECHANICAL PROPERTIES OF MATERIALS

751 758 1109 1585 1588 2453 3240 3242 3244 3249  
3250 3253 4122 4123 4127 4977 4978 4980 4982 4983  
4985 4987 5877 5888 6735 6739 6741 7603 7604 7607  
8396 8397 8401 9207 9210

## METABOLISM

3247 3251 3255 5890

## MUSCULO-SKELETAL

753 754 755 1585 2549 3244 4122 5879 6736 8395  
8408

## NERVOUS SYSTEM

1590 1601

## PROSTHETIC DEVICES

1589 3248 3258 4120 4124 4129 4984 5886 6279 6736  
6744 6747 8395 8405 8407

## PSYCHOLOGY

4130

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## BIOMECHANICS \*CONTINUED\*

## RESPIRATORY

759 3255 3256 3257 3262 6740 6748 8409 10019

## STRUCTURAL SUPPORT

1582 1583 2445 3241 4112 4123 4976 4984 5878 9208  
9209 10026

## TESTING

1583 5879

## TISSUES, ORGANS AND CAVITIES

1584 1593 2446 2453 3242 3243 3245 3246 3248 3259  
4112 4113 4114 5884 6739 6741 8404 8406 9208\*SEE ALSO\*--- BIOMATHEMATICS -- HEAT TRANSFER,  
BIOLOGICAL -- HUMAN ENGINEERING -- KINEMATICS,  
HUMAN BODY -- KINEMATICS, MOBILITY -- MAN-MACHINE  
SYSTEMS -- PLASMA (MEDICAL)

## BLADES--- \*SEE\* UNDER MODIFIER

BLAST LOADING--- \*SEE\* EXPLOSION, EFFECTS ON  
STRUCTURES

## BLAST WAVES--- \*SEE\* WAVES, BLAST

## BLOWERS--- \*SEE\* COMPRESSORS

## BOATS, FLYING--- \*SEE\* SEAPLANES AND FLYING BOATS

## BODIES, COMPRESSIBLE FLOW PAST

431 1209 2092 2095 2881 3699 3706 4603 4604 8056

## BLUNT

1198 2094 2096 2099 3704 5507 5520 5534 5751 6345  
7236 7237 7239 7241 7260 7261 7272 8063 8066 8072  
8880 8896 9659 9660 9661

## BODIES OF REVOLUTION

486 1199 1200 1204 2097 4636 5515 5554 6341 6412  
6416 8057 8090 8263 8283 8878 8885 8887 8929 9653  
430 1220 1245 2093 2131 2151 2157 2902 3738 3768  
4581 4582 4584 5506 5511 5513 5585 6343 6344 6380  
7278 7306 7307 8060 8064 8067 8881 8923 9655 9679  
9684

## CYLINDRICAL

621 622 1203 1207 1451 2331 2333 2878 2883 6348  
6350 8069 8087 8091 9095 9674 466

## PLANE SURFACES

431 445 2186 5588 6346 6405 6408 7282 8081

## POWER LAW GEOMETRICS

3703 5518 8089

## SLENDER

439 482 1247 3075 5503 5507 5510 6718 7238 7240  
9882

## SPHERICAL

434 1203 2116 4397 4829 5513 5517 6360 8070 9658  
9678

## WEDGES

432 438 1197 2880 4590 6349 8068 8073

## BODIES, INCOMPRESSIBLE FLOW PAST

411 491 2938 4344 4616 5480 5481 5538 6312 7195

## BLUNT

412 413 2079 2125 2856 2864 6325 7229 8853 8859  
8939 9737

## BODIES OF REVOLUTION

587 1173 2852 3060 4557 5470 7218 7228 8028

## CYLINDRICAL

413 1184 1193 2076 2850 2910 3674 3680 4563 4805  
5468 5550 5566 6336 6369 7180 7219 7345 8052 8053

## BODIES, INCOMPRESSIBLE FLOW PAST \*CONTINUED\*

## CYLINDRICAL \*CONTINUED\*

8106 8143 8847

## PLANE SURFACES

2042 2044 3926 5467 8262 9866

## POWER LAW GEOMETRICS

4036

## ROTATING

1276 2077 2174 5470 6434 6554 7349 8022 8028 8936  
8949

## SLENDER

1453 6551 9686

## SPHERICAL

2149 2855 3689 3780 4529 4546 5476 5497 6326 6329  
6337 6415 6434 7193 7205 8022 8042 8852 8860

## \*SEE ALSO\*--- SUBMERGED BODIES

## BOILERS

372 806 1379 1384 2253 2258 2261 2295 2296 2993  
3010 3011 3012 4196 4770 5939 7435 7445 7448 7449  
7450 7451 8108 8111 9021 9024 9036 9038 9039 9827\*SEE ALSO\*--- AIR PREHEATERS -- HEAT EXCHANGERS --  
REFRACTORIES

## BOILING

1359 1364 1371 2260 3861 5682 5683

## \*SEE ALSO\*--- HEAT TRANSFER, BOILING

BOLTED JOINTS--- \*SEE\* JOINTS AND JOINING PROCESSES,  
BOLTED

## BORON

3910 5707

## BOUNDARY LAYER

411 1232 2071 2124 2126 2129 2134 2193 2400 2900  
2905 2912 3723 3724 3727 3729 3731 3732 3735 3738  
3749 3750 3751 4613 4617 5501 5535 5541 5542 5543  
5552 5554 5558 5559 5565 6369 6375 6379 7285 7286  
7294 7295 7299 7303 7308 7310 8054 8095 8101 8107  
8110 8900 8907 9680 9681 9683 9685 9690  
JANUARY FEATURE ARTICLE

## AXISYMMETRIC

478 2117 3739 6380 9679 9682 9684

## BINARY FLOW

608 1372 2121 2904 4748 4749 4758 6380 8224

## BOUNDARY FLEXIBILITY

2162 6386 8105

## BOUNDARY ROUGHNESS

416 477 2123 2902 3746 8116 8905

## CHEMICAL REACTION

469 8104 9679

## COMPRESSIBLE FLOW, LAMINAR

460 1211 1440 3737 5551 5737 5740 6384 7288 8059  
8099 8908 9684

## COMPRESSIBLE FLOW, TURBULENT

455 458 1211 2095 2899 2901 3734 4611 5537 5544  
5553 6351 6381 6391 7525 8058 8096 8284 8313 9090  
9927

## CONTROL

458 466 467 468 1234 2042 2899 2903 3663 3728  
4612 5567 6367 6371 6387 7302 7309 8905 9687

## FINITE DIFFERENCE SOLUTIONS

453 462 2121 2895 3730 5567 6383 7300 8097 9679

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## BOUNDARY LAYER \*CONTINUED\*

## HIGHER ORDER APPROXIMATIONS

462 3275 3726 4606 5451 6365 6376 8092

## HYPERSONIC

456 461 1205 1230 1390 2127 2131 3740 3747 5510  
6346 6380 6381 6382 7298 7307 9661 9687 9688

## INCOMPRESSIBLE FLOW, LAMINAR

463 1185 1225 2119 4567 4577 4729 4792 4802 5493  
5536 5538 5738 6307 7287 8261 8819 9064 9065 9066  
9068

## INCOMPRESSIBLE FLOW, TURBULENT

2123 2162 2894 2896 2898 3728 3730 4607 5451 5546  
5547 5548 5556 5557 5735 6307 6370 6371 6373 7221  
7290 7291 7481 8097 8901 9696

## INTEGRAL METHODS

452 453 459 460 468 1223 1230 1236 2117 2122  
2461 4622 4729 5537 6365 6372 6392 7290 7291 8098  
8205 8998 9020

## INTERACTION WITH SHOCK

1211 3748 5568 5569 6381 7248 7309 8109 8908 9688  
9689

## MEASUREMENT AND EXPERIMENTAL TECHNIQUES

453 455 458 461 466 477 1205 1228 2128 2131  
2899 3680 3734 3739 3746 4611 4620 5568 7297 7309  
8094 8116 8123 8902 8904 9689 9691 9695

## NOISE

213 8313 8904

## REATTACHMENT

2136 2864 3680

## ROTATING BODIES

457 459 1475 2043 2118 6393 8856 8899 9639 9640

## SEPARATION

386 413 467 1217 1230 2136 2864 3680 3747 4596  
5451 5509 5564 5566 6389 6392 6393 7221 7307 8103  
8106 9686 9687

## SIMILARITY SOLUTIONS

2125 2830 3725 3733 3736 4619 5539 6378 6385 7302  
8017 8898 8992

## STABILITY

1185 1224 2236 3742 3745 4807 5664 6386 7301 8094  
8105 8903 9067 9867

## SUBLAYER, LAMINAR

1243 2135 2895 2898 2914 3755 5544 5577 5579 6401  
7173 7318 9699

## SURFACE MASS TRANSFER

386 1390 1391 2126 2924 2926 3024 3731 3738 3749  
3896 3900 4758 5700 7288 9031 9640

## THERMAL

457 543 1227 1229 2125 2215 2241 2893 4610 5666  
5851 6373 6376 6377 6385 8098 8195 8917 8992 9799

## THREE-DIMENSIONAL

2122 2130 2903 5556 5557 6377 6383 6384 6385 7300  
8102 8104 8909 8910 9176 9689

## TRANSITION

1150 1228 1231 2131 2902 3745 3746 4608 4610 5451  
5561 5562 5563 6388 7304 7305 7306 8050 8103 8819  
8904 8905

## UNSTEADY

1229 1235 1236 2135 2892 3737 3752 4577 4610 4619  
6394 7311 8050 8093 8102 8909 8910

## WINGS

2118 2894

## BOUNDARY LAYER \*CONTINUED\*

\*SEE ALSO\*--- AERODYNAMIC HEATING --  
AEROTHERMOCHEMISTRY -- COMBUSTION, BOUNDARY  
LAYER -- HEAT TRANSFER, BOUNDARY LAYER -- MASS  
TRANSFER, TRANSPIRATION OR FILM COOLING --  
NOISE, BOUNDARY LAYER -- SHEAR LAYER --  
SKIN FRICTION, FLUID FLOW -- SWIMMING  
PROPULSION -- WAKES

## BOUNDARY-VALUE PROBLEMS

490 2460

## COMBINED FIELDS

2419

## FLUID MECHANICS

2855 2857 6295

## HEAT TRANSFER

4565

## SOLID MECHANICS

383 1727 2597 5105 5999 6167

\*SEE ALSO\*--- EIGENVALUE PROBLEMS

## BRAKES

808 2817 2819 6284 7152 7992 8799

## BRASS

138 1095 2610 3522 7732

## BRAZING AND SOLDERING

8817

\*SEE ALSO\*--- JOINTS AND JOINING PROCESSES,  
BRAZED AND SOLDERED

## BRIDGES

350 1941 1992 2000 2796 2805 2807 2808 2809 3609  
3629 4490 5410 5411 6261 7960 7979 7985 7986 9511  
9593

## ARCH

9594

## BOX-GIRDER

4489 5408 5409 8287

## DECKING

349 4491 4492 7978 8780

## HIGHWAY

4488 5036 7980

## RAILROAD

7977

## SKEW

3611 6262 8758

## SUSPENSION

348 1999 3608 3612 5763

\*SEE ALSO\*--- VIBRATION, BRIDGES

## BUBBLE DYNAMICS

704 705 706 1269 1361 1524 1525 1526 2059 2279  
2404 2405 2999 3001 3175 3881 3901 4045 4046 4047  
5682 5834 5835 5836 6674 6675 6677 6678 6679 6680  
7210 7443 7450 7455 8218 8219 8341 8342 9013 9634  
9722 9819 9820

## CAVITATION FLOW

1168 2845 6317 7179 7181 9739

\*SEE ALSO\*--- BOUNDARY LAYER, BINARY FLOW

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## BUCKLING

80 3610 5192 6054 7612 7614 7780 7781 7783 8577  
8580 8774  
DECEMBER FEATURE ARTICLE

## ARCHES AND VAULTS

179 962 1795 1796 1797 2711 3264 3405 4276 5193  
5824 6058 6915 6918 6933

## BEAMS, ELASTIC

958 972 1012 1792 1793 1794 1802 2615 2655 2665  
2687 3271 3420 4274 5189 5190 6022 6053 6919 6922  
7745 7784 7788 8583 8584 9438

## BEAMS, PLASTIC

876 1791 2606 2654 5064 5191 5825 6923 7785

## COMBINED LOADING

2616 4275

## CREEP

184 185 186 965 967 1817 3423 6004 6073 6854  
8598 8599

## DYNAMIC LOADING

198 972 973 1815 1816 2654 2664 6070 7863 8597  
9408 9438

## EXPERIMENTAL

971 2656 2663 3428 6045 6055 6062 6930 7788 7792  
7796 8585

## FRAMES

1803 2666 3422 5195 5196 6924 7787 7863 8533

## GENERAL THEORY

957 3381 4273 6052 8587 9143  
JUNE FEATURE ARTICLE

## GIRDERS

195 960 3421 8590

## LARGE DISPLACEMENTS

5054 5193 5196

## LOCAL BUCKLING

2606

## NONLINEAR

453 3424 6056 6057 6065 6918 6933 8917

## PIPES AND TUBES UNDER PRESSURE

194 6072 6866 7797

## PLASTIC

179 182 876 970 1791 2606 2662 2666 3380 3381  
6007 6866 7794 8533

## PLATES

180 186 876 962 963 975 1012 1758 1805 2606  
2658 2659 2660 2667 3433 3434 3435 4031 5197 5198  
5199 5203 6007 6055 6059 6060 6061 6062 6063 6071  
6073 6074 6925 6926 7790 7791 7793 7798 8554 9411  
9446 9446

## POST-BUCKLING BEHAVIOR

2667 2668 3433 3434 3435 4283 5204 6061 6073 6074  
6390 6934 7791 7798 8581 8582  
DECEMBER FEATURE ARTICLE

## RINGS

959 3424 7786 9410

## SANDWICH CONSTRUCTION

1806 5201 8146 8596 9419

## SHELLS

971 1758 2661 2662 4031 4282 6041 6045 6927 7780  
7793 9094 9415

## SHELLS, AXISYMMETRIC

181 182 184 964 965 966 967 968 969 970

## BUCKLING \*CONTINUED\*

## SHELLS, AXISYMMETRIC \*CONTINUED\*

1038 1800 1807 1808 1809 1810 1811 1812 1813 1814  
3423 3427 3428 3429 3430 3431 3432 4283 5160 5200  
5202 6044 6065 6067 6068 6070 6920 6928 6929 6930  
6932 6934 7792 7794 8563 8592 8594 8595 8597 9094  
9413 9414 9417

## SHELLS, CREEP

6004

## SHELLS, STIFFENED

183 1840 2663 4278 7795 8593 9094 9418

## SHELLS, THICK

3380

## STRUCTURES

954 955 956 961 974 1792 1798 1799 1801 1803  
1804 2657 3425 3426 4272 5194 5195 6916 6917 7789  
8578 8586 8589 8590 8591 9407

## THERMAL

682 2395 4031 5813 5824 8330

## TORSIONAL

6922 8588

## VARIABLE SECTION

968 9406 9409

\*SEE ALSO--- COLUMNS -- COMBINED LOADS

BUFFETING--- \*SEE\* GUST LOADS

BUILDINGS--- \*SEE\* STRUCTURES, BUILDINGS

## BURNERS

1402

BURNING VELOCITY--- \*SEE\* FLAME, PROPAGATION

## C

## CABLES AND FLEXIBLE FILAMENTS

192 320 1017 1982 2804 2842 7709 8545 8546 9432

\*SEE ALSO--- BELTS -- IMPACT, CABLES AND  
STRINGS -- VIBRATION, CABLES AND STRINGS --  
WAVES, CABLES AND STRINGS

## CALORIMETER

2208 2209 3821 6481 8385 8966

## CAMS

369 1134 2022 3639 4504 4505 5426 5430 6274 9609

## CANALS

1163 5601 6309 8025

\*SEE ALSO--- CHANNELS

## CAPILLARY FLOW

1367 1369 3821 4525 5883 6302 6432 8085 8821 9730

## CASCADES OF AIRFOILS

480 1280 3761 4657 4658 4659 6440 8146

## COMPRESSIBLE FLOW

505 2950 3797 4660 4671 8055

## INCOMPRESSIBLE FLOW

1277 2176 2487 3794 3798 3799 4656 4668 7358 8156  
8160 8161 8952 8953 8961 9741

\*SEE ALSO--- TURBINES AND TURBOMACHINERY

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## CASTING

2019 2996 3582 5315 7050 7086 9519

## CAVITATION

727 1173 1308 2107 2178 2845 3129 3175 3808 4679  
5460 5522 6435 7178 7343 7347 7490 8220 9227

## DAMAGE

749 1168 2057 2058 2059 2845 4549 4550 4887 6316  
6317 8954

## HYDROFOILS

1364 3223 5461 7180 10000

## INDUCERS

1494 1495 2061 2846 3804 4887 6316 6319 7176 9138  
9743 9746

## MECHANISM

706 1495 2058 2061 2379 2844 2845 4046 4551 6318  
7177 7179 8032 8117 9938

## PROPELLERS

2487

## PUMPS

403 2057 2176 2845 4679 5616 7371 8161

## TURBINES

1286

## VENTILATION

741 9625 10000

\*SEE ALSO--- BUBBLE DYNAMICS, CAVITATION FLOW --  
EROSION -- FRETTING -- NOISE, CAVITATION -- WEAR

## CELESTIAL MECHANICS

833 3984 3985 4839 5769 5782 6606 6607 6609 7518  
8290 9903 9916

## GENERAL PERTURBATIONS

2343 7507 8303 9905

## PERIODIC ORBITS

1456 1458 4840 7505 8291 9916

## PLANETARY THEORY

826 7507

## SATELLITE THEORY

1457 2351

## SPECIAL PERTURBATIONS

623

## THREE BODY THEORY

826 1456 3097 3101 3986 4840 7504 7505 8291 9318

\*SEE ALSO--- ARTIFICIAL SATELLITES --  
INTERPLANETARY PROBES -- LUNAR MISSIONS -- ORBIT  
MECHANICS -- RADIATION PRESSURE -- REENTRY --  
RENDEZVOUS

## CENTRIFUGATION

699 1515 3168 7010

## CERAMICS

278 2276 3009 4386 4387 4753 5675 7721

## CHAINS

193 5216 5425 9607 9608

## CHANNELS

394

## CLOSED, FLOW

402 1557 3667 3678 5455 5477 6301 8025 9651

## EROSION

2839

## CHANNELS \*CONTINUED\*

## OPEN, FLOW

400 408 801 723 1150 1163 1165 2053 2055 2841  
2942 3670 3671 3672 3675 3877 4541 5457 5458 7172  
8027 8037 8140 8827 8830 8833 8839 8840 8845 8851  
9629 9733\*SEE ALSO--- CANALS -- IRRIGATION -- PIPE FLOW --  
STREAMS, NATURAL

## CHARTS

321 1120 3594 6255 7567

## CHEMICAL

## ENGINEERING

1068 4166 6295

## KINETICS

8078

## THERMODYNAMICS

3839

\*SEE ALSO--- COMBUSTION -- HEAT TRANSFER --  
THERMODYNAMICS

## CHEMICAL REACTIONS

820 1417 7682 8979 9280

## DECOMPOSITION

1068 2262 9040

## CHIP FORMATION

1073 1075 1077 3528 3530 4384 4969 4970 7051 7891  
7892 8698 8700

## CHUTES AND CONVEYORS

2020 4522 7151 8623 9607

## CLAY

242 244 245 250 256 1890 1891 1892 1893 3504  
3507 3512 4055 4336 4337 4341 4343 4352 4353 5290  
5299 5302 6131 6170 7007 7011 7020 7872 7875 8668  
8672 8684 9497 9500 9502 9512

## CLOUDS

726 732 733 1357 2421 4068 7584 7585 8365 8369  
9185 9187 9984 9986 9988

\*SEE ALSO--- METEOROLOGY, CLOUD PHYSICS

## CLUTCHES

2024 7153 7992 7995 8799

## COAGULATION

6322

COANDA EFFECT--- \*SEE\* JETS, COANDA EFFECT

## COASTAL ENGINEERING

3201 3208 9169 9174

## COATINGS AND FILMS

1082 1962

## BIREFRINGENT

5350 6165 7740 7887 8734

## BRITTLE

310

## PROTECTIVE

1100 5414 5868 8703

## SURFACE

1914 3011 5358 8012 8703 8812

\*SEE ALSO--- LUBRICANTS

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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CODING AND PROGRAMMING  
23 27 28 355 798 2484 2796 4162 4469 5915  
5916 5917 7109 7486 8450

\*SEE ALSO\*--- COMPUTING TECHNIQUES -- LINEAR AND  
NONLINEAR PROGRAMMING

COLUMNS  
360 1145 4487 6945

ANALYSIS  
872 8774

CREEP BUCKLING  
2795

DESIGN  
1996 7965 8768

ECCENTRICALLY LOADED  
6252

PLASTIC BUCKLING  
327

REINFORCED CONCRETE  
1120 1989 3599 5387 5398 6252 6253 6255 7115 7127  
8773

TESTING  
7142

\*SEE ALSO\*--- BEAMS, BEAM-COLUMNS

COMBINED LOADS--- \*SEE\* LOADS, COMBINED

COMBUSTION  
2284 3037 5508 6526 7469

BOUNDARY LAYER  
1393 4764

BURNING RATE  
2288 7460

EXTINGUISHING  
9044

FUEL JETS  
444 9957

GASEOUS FUELS  
3908 5709

HEAT TRANSFER ASPECTS  
2282 7433 8242

INFLAMMABILITY  
2290

INSTABILITY  
3030 5718 6524 7467

LIQUID DROPLETS  
1409 2292 5711 6518 8245 9843

LIQUID FUELS  
1405 6022 9037 9840

POWDERED FUELS  
3907 3910 3912 8236 8240

PROCESS  
3031

PRODUCTS  
1403 1410 2228 3035 5705 7433

PROPELLANTS  
1400 1401 1407 1409 2294 2297 2298 3033 3034 3911

COMBUSTION \*CONTINUED\*

PULSATORY  
6534 8239

REACTION KINETICS  
3029 5707

SHOCK WAVES  
4797 8241 9841

SMOLDERING  
1399

SOLID FUELS  
570 573 4766 5719 6534 8238 8243 8244 9044 9845  
9846

STABILITY  
5710 5719 7475 8240 9041

TURBULENT  
1396 1406 7460

\*SEE ALSO\*--- BOILERS -- BURNERS -- CHEMICAL,  
KINETICS -- COMBUSTORS -- DETONATION AND  
DEFLAGRATION -- DISSOCIATION -- EXPLOSION,  
HYDRODYNAMICS -- FLAME -- FLUE GASES -- FUELS --  
FURNACES -- IGNITION -- OPTICAL TECHNIQUES --  
PROPELLANTS -- ROCKETS -- SPRAYS

COMBUSTION CHAMBERS  
571 6509 7466 8221 9667

ROCKETS  
7468

TURBINES  
5713

\*SEE ALSO\*--- COMBUSTORS

COMBUSTORS  
1404 6532 6533 7464 7474 7475 8243

\*SEE ALSO\*--- COMBUSTION CHAMBERS

COMPLEX VARIABLES  
5891 5903

\*SEE ALSO\*--- CONFORMAL MAPPING -- FREE BOUNDARY

COMPOSITE MATERIALS  
280 1079 1924 3383 5318 5359 7055 7397 9781

REINFORCED  
117 1732 3378 4332 5078 5361 5393 6732 7035 9205

\*SEE ALSO\*--- LAMINATES -- VIBRATION, COMPOSITE  
MATERIALS -- WAVES, COMPOSITES

COMPRESSIBILITY--- \*SEE\* THERMOPHYSICAL PROPERTIES,  
EQUATIONS OF STATE

COMPRESSIBLE FLOW--- \*SEE\* FLOW, COMPRESSIBLE

COMPRESSORS  
3561 3849 4669 4671

AXIAL  
507 3803 4657 4670 7366 8153 8154 8155 8160 9745

BLADES  
2873 5795 8156

CENTRIFUGAL  
1412 5553 5614 6444 8151 8152

\*SEE ALSO\*--- FLOW, INTERNAL -- TURBINES AND  
TURBOMACHINERY -- VIBRATION, BLADES

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## COMPUTERS--- \*SEE\* COMPUTING TECHNIQUES

## COMPUTING TECHNIQUES

23 331 4604 5383 6697 6806 7109 7437

## ANALOG

31 783 2491 5003 5918 6802 8452 9263 9701 9788

## DIGITAL

44 347 355 717 718 1130 1664 2485 2796 2797  
 2801 2802 3317 3986 3588 3827 4181 4469 4484 4498  
 4681 5038 5407 7101 7102 7103 7105 7232 7861 8101  
 8450 8470 8757 8761 8778 8785 9256 9564 9599  
 MARCH FEATURE ARTICLE

## DIGITAL-ANALOG

30 5919 6802 9263

\*SEE ALSO--- CODING AND PROGRAMMING --  
 DATA ANALYSIS -- SIMULATION

## CONCRETE AND MASONRY

341 2713 2791 7114 9578

## BOND CHARACTERISTICS

336

## PANELS

7119

## PAVEMENTS

7970

## PRECAST

3593 4497 5388 7119

## PROPERTIES

342 363 1065 1111 1117 1118 1124 1125 1727 1916  
 1983 2794 3550 3576 3601 4427 4479 5389 6201 6251  
 6256 7120 7121 7123 7717 8767 8770 9577 9581

## SLABS

338 1119 4435 5390 5391 5416 7122 7963 9580 9584

## STRUCTURES

350 1123 2005 3599 3607 4480 4481 5387 6164 7115  
 7116 7117 7960 7962 7972 8766 8771 9407 9582 9588

## TESTING

314 339 340 1985 1986 3574 3580 3600 5347 5360  
 5362 5363 5364 5393 5404 6252 7086 7118 7124 7964  
 9579

## WALLS

5417 5418 5419 5420 8190 9601

\*SEE ALSO--- BEAMS, REINFORCED CONCRETE --  
 COLUMNS, REINFORCED CONCRETE -- CREEP, CONCRETE --  
 FOUNDATIONS -- JOINTS AND JOINING PROCESSES --  
 PRESTRESSED CONCRETE -- REINFORCED CONCRETE --  
 SHELLS, CONCRETE -- SHELLS, REINFORCED CONCRETE --  
 WALLS

## CONDENSATION

559 709 1208 1380 4044 8883  
 MAY FEATURE ARTICLE

## HIGH SPEED FLOW

2870 5668 7250

\*SEE ALSO--- HEAT TRANSFER, CONDENSATION

## CONFORMAL MAPPING

101 411 773 840 842 1172 1209 1764 2601 3678  
 4905 5137 5143 5150 5901 5902 5982 6091 6677 6823  
 6828 7186 7440 8522 9632

\*SEE ALSO--- FREE BOUNDARY

CONSOLIDATION AND STABILIZATION OF SOILS--- \*SEE\*  
SOIL MECHANICS, CONSOLIDATION

## CONTACT PROBLEMS

858 859 860 861 1703 1720 1721 1722 1946 2033  
 2431 2578 2579 2580 2581 3358 3359 3360 3361 3362  
 4089 4093 4226 4230 4231 4232 4233 4349 4442 5075  
 5076 5431 5866 5994 6725 6844 6850 7022 7155 7708  
 7710 7711 7712 7713 7724 8382 8383 8523 8524 8525  
 8526 8675 8700 9330 9332 9340 9341 9350 10002

## CONTINUUM MECHANICS

383 384 760 1149 1727 1755 2454 2459 2609 3265  
 3266 3662 4527 5347 6854

## CONSTITUTIVE EQUATIONS

1015 1041 1514 1860 3502 8013 8669

\*SEE ALSO--- ELASTICITY -- PLASTICITY --  
 RHEOLOGY -- VISCOELASTICITY

## CONTROL STABILITY

47 1659 2552 3997 4167 6790 8468 9276 9294

## DISCRETE SYSTEMS

50 788 1656 2510 2556 3323 3827 5017 5928 5931  
 9278 9285

## DISTRIBUTED PARAMETER SYSTEMS

796 797 1648 2504 4013 5013 5933

## FORCED SYSTEMS

43 1660 1670 2497 2505 2545 3315 3319 3321 5930

## LINEAR SYSTEMS

792 2508 3318 4168 5007 5009 5016 5930

## NONLINEAR SYSTEMS

24 42 43 45 46 824 1660 1674 2346 2496  
 2499 2505 2506 5017 5927 5928 5929 5931 8469

## TIME DELAY SYSTEMS

38 1609 1645 1652 2517 3317 3320 6788

## TIME VARYING SYSTEMS

1655 1658 1660 2499 3321 3322 5014 5015 5928 5929  
 5930 8465 9279

CONVECTION--- \*SEE\* HEAT TRANSFER, CONVECTION

CONVEYORS--- \*SEE\* CHUTES AND CONVEYORS

## COOLING TOWER

6508

## COPPER

892 898 3552 3553 4092 5337 5537 6020 6868 8542  
 8727 8816 8817 9198

## CORROSION

297 749 1940 2291 2764 3010 3032 3555 3556 4417  
 4418 4419 4420 4455 5876 7600 8388

\*SEE ALSO--- COATINGS, SURFACE -- FATIGUE,  
 CORROSION -- REINFORCED CONCRETE, CORROSION --  
 STRESS CORROSION

COUETTE FLOW--- \*SEE\* FLOW, INCOMPRESSIBLE,  
 COUETTE

## COUPLINGS

4518 7161 7988 7993

## CRACK PROPAGATION

1085 1097 1940 1983 2748 3545 3549 4395 4397 4398  
 4399 4424 5320 5326 5328 5330 5331 5332 5333 5338  
 5445 5538 5901 6184 6188 6189 6190 6191 6197 6207  
 6237 6238 7061 7064 7897 7898 7913 7915 8707 8708  
 8709 8711 8712 8715 8718 9525 9526 9527

## EXTENSION

1723 4493 7905

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## CRACK PROPAGATION \*CONTINUED\*

## FRACTURE MECHANICS

267 273 1063 3920 4370 4400 7043 7900 7901 7902  
7943 7944 7945 8713 9520 9521 9522 9523

## INITIATION

4369 4370 7043 7046

## RESISTANCE

7963

\*SEE ALSO\*--- FATIGUE -- STRESS AND STRAIN,  
CONCENTRATION

## CRANES

2804 3605 7143 7985

## CRAWLERS

1056 7037

## CREEP

124 384 4399 5444 6854 6863 7058 7907 8784 9537

## COMPOSITE MATERIALS

117 121 122

## CONCRETE

873 2593 2793 2795 3370 3371 5823 6251 6256 7121  
7717 7960 7962

## METALS

116 118 138 1067 2589 2590 8717 9348 9349 9352  
9562

## NONMETALS

117 121 122 123 1063 1729 3507 4241 4242 5295  
6005 6153 7014 7718 7720 7721 7875 7942 8687 9347

## RUPTURE

117 8544 8705

## TESTING

116 1099 1730 2589 5367 7096 7720 8687 9346 9347

## THEORY

116 118 119 869 873 874 875 1727 1730 2590  
2593 3367 3368 5099 6858 9346 9348 9349

\*SEE ALSO\*--- BEAMS, CREEP -- BUCKLING, CREEP --  
FRACTURE, CREEP -- HIGH TEMPERATURE PROPERTIES OF  
MATERIALS -- PLATES, CREEP -- SHELLS, CREEP --  
STRESS AND STRAIN, RELAXATION -- STRUCTURES,  
CREEP -- SUPERPLASTICS -- VISCOELASTICITY

## CRYOGENICS

1083 1313 1939 3143 4600 4601 5322 7461 9024

\*SEE ALSO\*--- HEAT TRANSFER, CRYOGENICS

## CRYSTALS

32 125 893 4329 5101 6113 6999 7866 8662 9485  
9555

## METALS

126 885 899 1727 1749 2454 2612 2613 3384 5121  
5123 5128 5315 7736 8542

## NONMETALS

6116 8820 9026

\*SEE ALSO\*--- DISLOCATION THEORY, CRYSTALS

## CULVERTS

8771

## CURRENTS

## WATER

1542 2417 4063 4066 4926 4929 7574 7578 8362 8364  
8365

CURVE FITTING--- \*SEE\* NUMERICAL ANALYSIS, CURVE  
FITTING AND SMOOTHING OF DATA

## CUSHIONING MATERIALS AND SYSTEMS

1054 6975 7864

CUTOUTS IN STRUCTURES--- \*SEE\* STRUCTURES, CUTOUTS

## CUTTING PROCESSES

269 1068 1320 4969 4970 7051 7885 7886

## METALS

274 1075 1077 1909 1910 1913 1915 3534 4382 4383  
4384 5313 5314 5869 6171 6172 6173 7891 7892 7894  
7895 8698 8699 8701

## NONMETALS

3531 3532 7008 7891

## THEORY

274 1074 1075 1913 3528 7892 8698

\*SEE ALSO\*--- CHIP FORMATION -- DRILLING --  
GRINDING -- MILLING -- TURNING

## CYBERNETICS

2544 9247

\*SEE ALSO\*--- LEARNING SYSTEMS

## D

## DAMPING CAPACITY OF MATERIALS

221 1005 1015 1113 2001 3471 4443 5127 5242 5258  
5365 5373 6095 6861 7739 7835 8666

\*SEE ALSO\*--- CUSHIONING MATERIALS AND SYSTEMS

## DAMS

405 1529 1899 1951 2018 2843 3668 7882 8025 8781  
8826 8834

## BREAK PROBLEM

2744 8832

## CONCRETE

8767 9578

## EARTH

4360 4361 5297 6151 7010 7034 8681 9513

## DATA ANALYSIS

780 1534 1556 1925 2004 3186 3196 3197 3201 3630  
4062 4150 4162 4461 4477 4638 4917 4927 6707 7085  
8353 8358 8364 8440 8739 8740 9166 9581

## PROCESSING

757 785 1593 2406 2486 3332 5051

## RECORDING

714 6696 6697 8380 9186 9964

## REDUCTION

3199 5857 7937 9182 9551

\*SEE ALSO\*--- AUTOMATIC CONTROL, DISCRETE  
SYSTEMS -- BIOLOGICAL DATA PROCESSING -- GRAVITY  
WAVES IN LIQUIDS -- NUMERICAL ANALYSIS

DATA PROCESSING--- \*SEE\* DATA ANALYSIS

## DECELERATORS, AERODYNAMIC

4642 7503

## BULLETS

8735 8736

\*SEE ALSO\*--- DRAG AND LIFT

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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DEFLAGRATION--- \*SEE\* DETONATION AND DEFLAGRATION

DEFORMATION--- \*SEE\* STRESS AND STRAIN

DELAY SYSTEMS--- \*SEE\* TIME DELAY SYSTEMS

DENSITY MEASUREMENT

515 1290 2181 3196 4689 4713 7375 7377 7396 8186  
9774

INDIRECT

3214 3217 3820 4711 9747

\*SEE ALSO--- OPTICAL TECHNIQUES

DETONATION AND DEFLAGRATION

1203 1397 1398 1468 1469 1470 2287 2875 3115 3903  
3905 3906 4006 4007 4797 4859 4860 5784 5785 6620  
6622 7242 7438 7461 7462 7468 9034 9035 9119 9120  
9837 9922

\*SEE ALSO--- EXPLOSION

DIAPHRAGMS

931

DIFFERENCE-DIFFERENTIAL EQUATIONS

1622 2467 3280 6762 7634 9788

\*SEE ALSO--- EQUATIONS, FUNCTIONAL

DIFFERENCE EQUATIONS

8 1633 1634 1635 1636 3280 4157 6778 7634 9668

\*SEE ALSO--- EQUATIONS, FUNCTIONAL

DIFFERENTIAL ANALYZER--- \*SEE\* COMPUTING TECHNIQUES

DIFFERENTIAL EQUATIONS, ORDINARY

3 2119 2547 3309 4145 5559 5891 9220

APPROXIMATION METHODS

4 765 1605 1609 1610 1611 1619 1824 2350 2461  
2475 3101 3103 3109 3271 3272 3273 3274 4002 4140  
4146 4159 4843 4845 5003 5771 5773 5780 5781 5892  
7634 8291 8293 8301 8416 8440 9220 9223

BOUNDARY-VALUE PROBLEMS

1607 1727 2462 3269 3273 3274 3288 3733 4938 5894  
6752 7619 8423 9219

EIGENVALUE PROBLEMS

1606 1608 2461 3281 3741 4141 6386 6753 7614 8428  
8898

INITIAL-VALUE PROBLEMS

3274 9064

NONLINEAR

190 191 980 981 982 1254 1255 2156 2462 3270  
3281 3288 3289 4142 4143 4144 4200 4287 6754 6941  
7617 7618 7619 7622 7623 7624 7630 7649 7801 7802  
8415 8417 8425 8448 8602 9226 9255 9424 9429 9430  
9462

NUMERICAL METHODS

764 1638 2477 2482 3300 3304 3307 4847 5000 5771  
5911 6771 6779 7634 7637 7644 7649 7803 8444 8446  
8447 8448 9224 9255

OPERATIONAL METHODS

187 2180 3280 3282 5900 8426 9232 9234

STABILITY

24 977 980 981 982 1456 1461 1609 1611 1634  
2346 2347 4990 5771 5893 6754 6788 6941 7506 7620  
7621 8417 8603\*SEE ALSO--- BOUNDARY-VALUE PROBLEMS -- EIGENVALUE  
PROBLEMS -- EQUATIONS, FUNCTIONAL -- INITIAL-VALUE  
PROBLEMS -- MATRIX METHODS -- NUMERICAL  
ANALYSIS -- OPERATIONAL METHODS

DIFFERENTIAL EQUATIONS, PARTIAL

3 767 778 2465 2896 3278 3723 3779 4145 4157  
4619 5540 5571 5891 6761 8093 8370 8418 9220

APPROXIMATION METHODS

6 1620 1623 1624 2892 2904 3729 4991 5898 6753  
8440 9220 9221 9228

BOUNDARY-VALUE PROBLEMS

5 6 8 10 11 34 490 766 1613 1614  
1616 1618 1620 2460 2464 2466 3275 3277 3302 3306  
3481 4013 4147 4993 5013 5895 5901 5904 6758 6759  
6760 6773 6777 7338 7625 7626 7627 7641 7647 7860  
8419 9227 9231 9233 9974

EIGENVALUE PROBLEMS

768 1615 1618 1628 2457 2458 5897 6756 8422

INITIAL-VALUE PROBLEMS

1613 1630 2070 3275 6759 7626 8420

NONLINEAR

17 1012 1615 3270 3276 3277 3302 3303 4992 5002  
5895 5896 5897 5898 6757 7624 7628 8449 9221 9222  
9225 9255

NUMERICAL METHODS

452 781 1612 1630 1633 1635 1636 2133 2895 3279  
3301 3752 4156 4992 5911 6402 6770 6771 6772 6773  
6778 7634 7637 7640 7648 7860 8413 8449 8900 9255  
9257 9260 9679 9685

OPERATIONAL METHODS

2463 7629 7634 8276 8421 8426 9232 9233 9235 9248

STABILITY

1012 1615 6759 7648 9225

\*SEE ALSO--- DIFFERENTIAL EQUATIONS, ORDINARY --  
EQUATIONS, FUNCTIONAL

DIFFRACTION--- \*SEE\* INTERFACE PHENOMENA

DIFFUSERS

2837 2837 2948 4595

SUBSONIC

519 6357

SUPERSONIC

1212 1213 2891 3469 4583 4760 5578 6414 9669

\*SEE ALSO--- INLETS

DIFFUSION

34 428 527 1170 2164 2966 3182 3277 4013 5013  
5900 6295 6691 9635 9636

ATMOSPHERIC

33 4938 4940 6425 6706 9184 9982

MOLECULAR

442 511 891 1298 2589 2590 3178 3817 5630 6860  
7267 8345 9348

THERMAL

5315 9163

\*SEE ALSO--- THERMOPHYSICAL PROPERTIES --  
TURBULENCE, DIFFUSIONDIGITAL COMPUTERS--- \*SEE\* COMPUTING TECHNIQUES,  
DIGITAL

DIMENSIONAL ANALYSIS

275 2847 4549 5463 6309 8433 8437 8690 8834

\*SEE ALSO--- MARINE ENGINEERING, SHIP MODEL  
EXPERIMENTS -- SCALE EFFECT

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

DIRECT ENERGY CONVERSION---\*SEE\* ENERGY CONVERSION,  
DIRECT

## DISKS

4397 5135 6012

\*SEE ALSO--- ROTATING DISKS

## DISLOCATION THEORY

893 895 1080 1497 2582 2584 2611 5101 5129 7735

## CONTINUOUS DISTRIBUTIONS

894 898 1750 1751 1909 2454 2589 2590 2614 3377  
3385 5124 5125 5126 5133 6018 6020 7738 7739 8541  
8543

## CRYSTALS

141 885 891 899 1749 2454 2613 3382 5113 5119  
5121 5126 5128 6870 6874 8698

## EDGE

896 1734 2612 5120 6869

## SCREW

896 1750 2612 2613 3383 5113 5120 5122 5123 5132  
6871 7737 9360

\*SEE ALSO--- CREEP -- CRYSTALS -- PLASTICITY,  
PHYSICAL THEORY

## DISPERSION

387 564 1156 2275 2276 2277 3020 3673 4532 4541  
4913 4936 4937 6694 7173 7211 8361 8845 8863

## DISSOCIATION

384 1218 1221 2282 2879 4743 9670

## DISTILLATION

9281

## DOCKS

1262 2939

## DOPPLER EFFECT

9168 9988

DOWNWASH AND UPWASH---\*SEE\* WINGS, UPWASH AND  
DOWNWASH

## DRAG AND LIFT

431 2270 5451 5461 5481 5550

## COMPRESSIBLE FLOW

6380 8065 8087 8930 9881

## INCOMPRESSIBLE FLOW

1194 1564 3680 6308 7323

## MEASUREMENTS

485 1253 4638 6413 6415 8070 8929 9686 9710 9711

## VEHICLES

1252 1253 2428 6413

\*SEE ALSO--- BODIES, FLOW PAST, WITH MODIFIERS --  
BOUNDARY LAYER -- HIGH LIFT DEVICES -- MARINE  
ENGINEERING, SHIP RESISTANCE

## DRAWING

125 1071 1072 1908 3525 3526 3527 4102 4379 4380  
4381 7884 9515

\*SEE ALSO--- EXTRUDING -- FORGING -- FORMING --  
ROLLING -- SUPERPLASTICS

## DRILLING

266 1073 1852 5312 6158 6745

\*SEE ALSO--- WELLS

## DROPS

423 702 1181 1551 1558 2060 2269 2402 2421 2425  
3167 3171 4041 4042 4044 4914 5495 5837 5839 6673  
6676 8837 9723 9957 9958 9959 9961

\*SEE ALSO--- HYDROLOGY, RAINFALL -- IMPINGEMENT  
OF DROPS -- SPRAYS

## DRYING

1367 1368 1369 1386 3878 3879 3891 5695

## DUCTILITY

5400 8745

\*SEE ALSO--- FRACTURE, DUCTILE -- STRAIN  
HARDENING -- SUPERPLASTICS

## DUST

1522 3176 4946

## COLLECTION

700

## TRANSPORT

465 1517 2397 2398 2400 4522 6668 6669 6670 9954  
9955

DYNAMIC LOADING--- \*SEE\* UNDER MODIFIER

## DYNAMIC PROGRAMMING

813 817 2470 2527 2544 4193 5949 8484 9107

\*SEE ALSO--- OPTIMAL AUTOMATIC CONTROL

## DYNAMICS

76 77 830 1015 2013 2552 2558 4133 4135 4288  
7612 8305 8306 8489

## ANALYSIS TECHNIQUES

79 831 833 1689 1693 1694 2406 2466 2550 2551  
2555 2674 2803 2804 2816 3345 3436 3609 3760 4145  
5000 5969 5972 5974 6613 6814 6818 7512 8490 8777  
8778 9318 9322 9568

## COORDINATE SYSTEMS

77 832 3346 4203 5970 5975 6815 9315 9316 9322

## ELASTIC BODIES

76 1689 1692 1819 1820 2549 2556 3364 5770 5778  
8619

## EQUATIONS OF MOTION

77 831 832 1143 1819 2549 2553 2554 2557 3343  
3344 3976 4207 5764 5969 5971 5972 6820 8490 8491  
8804 9316 9317 9318

## MACHINERY

2817 2820 3640 3644 3645 3646 3647 3648 3649 4206  
4523 4524 5430 7988 7992 7993

## PARTICLE

76 77 705 826 1239 1240 1515 1689 2400 2548  
2555 3168 4911 5964 5966 5967 5968 8340 8491 8493  
8498 9315

## QUANTUM MECHANICS

218 6102

## RIGID BODIES

31 76 77 829 1137 1141 1269 1689 2066 2174  
2550 2551 2555 3343 4203 4207 4517 4655 4842 5964  
5965 5966 5972 5973 5974 6420 6815 6816 6817 6819  
6938 7349 8495 8496 8497

## STRUCTURES

738 2019 2556 3610 6260 7350

## TESTING

1998 3347 3605 3649 6420 6781 8743

## VARIABLE MASS

1818 2548 5212 6819 8493 8497 9315

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## DYNAMICS \*CONTINUED\*

\*SEE ALSO\*--- AIRPLANE, DYNAMIC LOADS --  
BIODYNAMICS -- IMPACT -- IMPULSE -- SOIL  
MECHANICS, DYNAMICS -- SPACE VEHICLE  
STABILIZATION -- STRUCTURES, DESIGN, EARTHQUAKE  
RESISTANT -- STRUCTURES, EARTHQUAKE EFFECTS --  
VIBRATION

## E

EARTH PRESSURE--- \*SEE\* SOIL MECHANICS,  
EARTH PRESSURE

EARTHQUAKES--- \*SEE\* SEISMOLOGY, EARTHQUAKES

## EFFUSION

2112 2113 2888 2889

## EIGENVALUE PROBLEMS

619 774 832 1452 2457 2458 4945 5756 6595

\*SEE ALSO\*--- BOUNDARY-VALUE PROBLEMS

## EJECTORS

8249 8958 9001

## ELASTIC CONSTANTS OF MATERIALS

1112 1735 4241 4244 6824 7722

## TEST TECHNIQUES

312 313 1735 1970 2780 3580 3581 4460 5127 6226  
6234 7040 7047 7722 8693 8743 9550

## ELASTIC FOUNDATIONS

4351 8545 8680

## BEAMS

147 913 3386 3387 3388 5141 5142 6027 6054 6878  
6879 6896 7029 8549 8552 8681 8754 9364

## PLATES

2629 2630 2631 4345 5197 6143 6145 7024 7025 8675  
9375

## SHELLS

3402

## STRUCTURES

3624 7022

ELASTIC WAVES--- \*SEE\* WAVES, ELASTIC

## ELASTICITY

80 81 85 89 92 106 143 153 901 1698  
1700 1707 1717 3265 3266 4132 4134 5143 5626 7544  
7612 7714 7781 7953 8383

## ANISOTROPIC

32 91 95 112 115 188 767 847 866 1723  
1727 2575 5083 5085 5086 5092 5983 5984 5995 6839  
6851 7737 8528 8529 8694

## CONSTITUTIVE EQUATIONS

109 834 1616 1699 1724 4234 5077 5080 6843 7757  
8513 8530 8936

## COUPLE STRESSES

13 94 233 849 1763 1861 1873 2568 2569 3354  
3355 5062 5067 5163 5254 5264 7548 8503 8516 8517

## FINITE STRAINS

93 108 838 2560 5253 5255 5810 6113 6825 6826  
7748 7782 9342

## GENERAL THEORY

95 96 97 98 383 835 836 839 846 848  
850 867 868 1700 1709 1710 1711 1790 2562 2564  
2566 2582 2583 3349 3351 4210 4215 4218 4219 5055

## ELASTICITY \*CONTINUED\*

## GENERAL THEORY \*CONTINUED\*

5060 5061 5081 5091 5976 5980 5981 5986 5987 5992  
6106 6828 6833 6834 6835 6836 6837 6838 7544 7695  
7699 7700 7701 7702 7703 8501 8502 8506 8511 8512  
8514 9323 9328 9336

## MECHANICS OF MATERIALS

834 2559 4209 7015 7694 7697 7742 7779 8509 9610

## NONHOMOGENEOUS

83 110 113 114 845 851 1705 2572 3352 3363  
4236 5066 5090 5988 5991 6163 6841 8531 9327

## THREE-DIMENSIONAL, LINEAR

87 88 90 843 844 1708 2459 2563 3350 3353  
4216 4217 5059 5985 6831 6832 6842 6846 7615 7629  
8505 8510 9248 9327 9332 9333

## THREE-DIMENSIONAL, NONLINEAR

881 1609 10011

## TWO-DIMENSIONAL, LINEAR

82 84 86 105 840 841 852 868 1701 1702  
1704 1706 1712 1713 1723 1728 2565 2570 2573 2574  
3356 4213 4239 5056 5057 5058 5070 5071 5072 5084  
5431 5977 5978 5979 5982 5990 5993 6826 6827 6830  
6847 6852 6853 6914 7015 7696 7698 7699 7751 8504  
8505 8507 8508 8515 9324 9326 9329

## TWO-DIMENSIONAL, NONLINEAR

5992 6844 7748

\*SEE ALSO\*--- ANISOTROPIC MEDIA -- BEAMS --  
COMBINED LOADS -- CONTACT PROBLEMS -- CONTINUUM  
MECHANICS, CONSTITUTIVE EQUATIONS -- DISLOCATION  
THEORY -- ENERGY METHODS -- INTERFERENCE FITS --  
PLATES -- SHELLS -- STRESS AND STRAIN --  
STRUCTURES -- THERMOELASTICITY -- TORSION --  
VARIATIONAL METHODS, ELASTICITY

## ELASTOMERS

745 1733 1735 2389 2430 4424 5096

## ELASTOPLASTICITY

127 128 132 133 384 877 880 883 886 1128  
1741 1972 2597 2601 2606 2784 3374 3378 3588 3623  
3627 4487 4503 5104 5108 6008 6012 6259 6863 6864  
6866 7101 7127 7727 7728 7729 7730 7957 7958 8534  
8535 8536 8544 8739 8785 9359 9569 9570 9574 9575  
9589

ELECTRICAL ANALOGIES--- \*SEE\* ANALOGIES,  
ELECTRICAL

ELECTRICAL RESISTANCE STRAIN GAGES--- \*SEE\*  
TRANSDUCERS AND GAGES

## ELECTRICAL AND ELECTRONIC PROPERTIES

1288 1290

## GASES

511 3121 3125

## SOLIDS

275 535 3534 4715 5314 6874

## ELECTRO-FLUID-DYNAMICS

4204 4600 5451 7250

## ELECTRON

5621 9666

## BEAMS

1076 2614 3959 4588 6566 6571 7375 7492 8091 8229

## BOMBARDMENT

2614

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

ELECTRONIC INSTRUMENTATION--- \*SEE\* INSTRUMENT  
ENGINEERING, ELECTRONIC

EMBANKMENTS--- \*SEE\* DAMS

ENERGY CONVERSION  
7386 8988 9007

DIRECT  
1306

ELECTRO-GAS-DYNAMIC  
1441

FUEL CELL  
2956 8975

MHD GENERATOR  
589 612 1420 1421 1442 2315 2316 2328 2329 3062  
3064 3092 3093 3925 3928 3965 3966 3967 3968 3969  
3970 4791 4819 4830 4831 4832 5752 6580 6591 7493  
7494 8279 8280 9058 9082 9083 9084 9087 9884 9885  
9886 9887

SOLAR CELL  
4703 9913

THERMIONIC  
7387

ENERGY DISSIPATION  
7836 8835

\*SEE ALSO\*--- DAMPING CAPACITY OF MATERIALS

ENERGY METHODS  
133 876 1727 1755 2413 2591 4615 5114 5421 6003  
6866 8385 9576

ENERGY STORAGE  
8988 9007

\*SEE ALSO\*--- MAGNETO-FLUID-DYNAMICS

ENGINES  
1413 1414 3046 3047 3048 3050 3918 4430 4762 4774  
4775 4779 4780 4789 5728 6290 6291 6540 7038 7471  
9847

DIESEL  
3035 3889 4520 4777 4778 4871 5727 6541 7591 8221  
9047 9048 10007

GAS  
3049

SPARK IGNITION  
1415 3169 3917 8251 8252

\*SEE ALSO\*--- JET ENGINES -- LUBRICATION --  
NOISE, ENGINES -- PERFORMANCE, ENGINES --  
VIBRATION, ENGINES

ENTROPY  
4698 4700 5628 6475 8172 8176 8982

ENVIRONMENTAL TEST  
735 1082 1098 1099 7578 7983 9199

\*SEE ALSO\*--- TESTING

EQUATIONS  
9220

ALGEBRAIC  
25 2480 5000 5001 5909 6771 8431 8441

FUNCTIONAL  
872 2885 3365 5100 7628 7634

\*SEE ALSO\*--- DIFFERENCE EQUATIONS --  
DIFFERENCE-DIFFERENTIAL EQUATIONS -- INTEGRAL

EQUATIONS \*CONTINUED\*  
\*SEE ALSO\*--- \*CONTINUED\*

EQUATIONS -- INTEGRO-DIFFERENTIAL EQUATIONS --  
NUMERICAL ANALYSIS

EQUATIONS OF STATE--- \*SEE\* THERMOPHYSICAL  
PROPERTIES, EQUATIONS OF STATE

EROSION  
295 408 749 1061 1168 2058 2839 3229 4550 6724  
6726 8386 8839 8954

\*SEE ALSO\*--- CHANNELS, EROSION

ERROR  
714 775 5911 9172

THEORY  
15 7720

EVAPORATION--- \*SEE\* MASS TRANSFER, EVAPORATION

EXPERIMENTAL MECHANICS  
519 520 521 1016 1041 1084 3263 5908 8162

ANALYSIS TECHNIQUES, ELECTRICAL  
511 515 6217 6870 8738 9474

ANALYSIS TECHNIQUES, MECHANICAL  
1914 4515 6107 6116 6166 8641

ANALYSIS TECHNIQUES, OPTICAL  
277 304 3263 4432 4433 5837 5839 6165 6207 6208  
6215 6216 6219 6264 6279 6984 7074 7077 7078 7084  
7142 7887 7927 7929 8728 8734 8735 8962 10001

DYNAMICS  
6985 8693

FLUIDS  
499 1204 1209 1211 1216 1272 2884 3210 4587 4601  
6650 7178

STRESS ANALYSIS  
15 299 303 308 310 311 775 1101 1744 1941  
1944 1945 1946 1949 1951 1952 1955 1956 1957 1958  
1960 1961 1962 1963 2772 2773 2774 2775 2805 3561  
3563 3564 3565 3567 4368 4425 4426 4427 4428 4429  
4430 5115 5286 5349 5350 5358 6165 6210 6211 6212  
6214 7021 7046 7071 7072 7073 7076 7918 7919 7921  
7922 9503

\*SEE ALSO\*--- COATINGS -- HOLOGRAPHY -- OPTICAL  
TECHNIQUES -- PHOTOELASTICITY --  
PHOTOPLASTICITY -- STRESS AND STRAIN, ANALYSIS

EXPERIMENTAL STRESS ANALYSIS--- \*SEE\* EXPERIMENTAL  
MECHANICS, STRESS ANALYSIS

EXPLODING WIRES--- \*SEE\* WIRES, EXPLODING

EXPLOSION  
1016 1033 1471 1472 2354 3118 5786 5787

EFFECTS ON MATERIALS  
1903 1904 3515 5280 6118 6119 7866 7879 8671 9128

EFFECTS ON STRUCTURES  
1904 4008 4959 8706 9490

HYDRODYNAMICS  
3116 3117 4861 4887 4959 9125 9918 9920

MEASUREMENTS  
4887 7013 7865 9122

\*SEE ALSO\*--- DETONATION AND DEFLAGRATION

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## EXPLOSIVE FORMING--- \*SEE\* FORMING, EXPLOSIVE

EXPLOSIVES  
4010 5706 9921EXTERNAL FLOW--- \*SEE\* BODIES, FLOW PAST, WITH  
MODIFIERSEXTRUDING  
125 270 1070 1906 3521 3522 4102 4377 4380 5310  
7887 7888 8016 9362 9515\*SEE ALSO--- DRAWING -- FORMING -- FORGING --  
ROLLING -- SUPERPLASTICS

## F

## FABRIC MECHANICS--- \*SEE\* TEXTILES

FANS  
8147AXIAL  
2949 4672 4783 4784CENTRIFUGAL  
5238 8956DUCTED  
7280FASTENERS  
7988\*SEE ALSO--- FATIGUE, FASTENERS -- JOINTS AND  
JOINING PROCESSESFATIGUE  
293 1082 1092 1926 1935 1939 2755 4408 5352 5353  
6191 6193 6194 6204 7058 7092 7907 8704 8722 8724  
9540BEAMS  
4416 4476BEARINGS  
3238 6725 7601 8386 9202CORROSION  
289 1932 2761 4419 4985 5341 7915CRACK DETECTION  
899 2758DAMAGE  
281 288 887 1095 3546 3547 4402 5335 6205 7059  
7063 7066 7150 9532 9533EXPERIMENTAL METHODS  
285 1113 1930 1938 3575FASTENERS  
1096FRETTING  
1933 5340 7061 7062 9533GEARS  
6725JOINTS  
3659 3660 4406 6203 8007 9538LOW CYCLE  
5336 5351 7060 7904 8716 8717 8726MACHINE ELEMENTS  
284 2756 4409 6195

## FATIGUE \*CONTINUED\*

MACHINES  
4438 6230 6231 7093 7094 8750 9560MULTIAXIAL  
4404 7091PRESSURE VESSELS  
3616 7139 7888PROBABILITY OF FAILURE  
2335 5339 5539 6278 9527PROPERTIES OF METALS  
287 290 294 887 898 1088 1089 1091 1727 1936  
1937 2454 2757 2760 2781 3547 3548 3552 3553 3554  
4396 4401 4413 4414 4418 4442 5330 5338 5366 5538  
7067 7068 7908 7909 7914 9530 9535PROPERTIES OF NONMETALS  
280 3550 6199 6201 7065 7936 9534RANDOM LOADING  
8715 9528ROLLING CONTACT  
1934 8723STRUCTURES  
1090 1931 1978 2335 4488 5328 6200 6202 7903 8740  
9104 9531 9539SURFACE  
749 1573 7174 7600TESTING  
887 899 1925 1927 1929 2335 2759 3551 3578 4403  
4407 4440 5333 5334 6196 6198 6282 7069 7070 7911  
7930 7935 7937 8720 8721 8740 8744 9530 9531 9536THEORIES  
283 286 291 292 1087 1094 2454 4405 4410 4411  
4415 5331 5332 6192 7064 7912 7913 8719 8725 9529  
9532THERMAL  
685 689 1512 3582 4439 4902 5828 6659 7174 8329  
9148\*SEE ALSO--- CRACK PROPAGATION -- CREEP --  
FRACTURE, FATIGUE -- FRETTING -- GEARS, FATIGUE  
AND WEAR -- PROBABILITY THEORYFIBERS AND FABRICS  
122 123 865 904 1745 1752 4051 4237 4332 5140  
8527 8579FILAMENTS  
7722

\*SEE ALSO--- WHISKERS

FILM COOLING--- \*SEE\* LIQUID FILM, COOLING

FILTERS  
4880 6681 6781 8088FILTRATION  
700 6681 9159FINISHING  
7051 8702FINITE ELEMENT METHODS  
1031 1825 3483 4437 4468 5104 5376 5377 5378 5643  
5645 6243 6773 6776 7108 7122 7626 7639 7647 7954  
7956 7957 7979 8007 8689 8690 8758 8759 8769 8782  
8986 9446 9446 9564 9565 9566 9567  
MARCH FEATURE ARTICLE

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## FINITE ELEMENT METHODS \*CONTINUED\*

\*SEE ALSO--- FLOW, COMPRESSIBLE, FINITE ELEMENT METHODS -- FLOW, INCOMPRESSIBLE, FINITE ELEMENT METHODS -- PLATES, FINITE ELEMENT METHODS -- SHELLS, FINITE ELEMENT METHODS

## FIRE

9008

## FLAME

2285 2289 3036 5703

## COMPOSITION

2293 5705

## DIFFUSION

3025 6523 8235 9835

## INHIBITION

6525

## LAMINAR

1394 3025

## OSCILLATION

7463

## PLASMA

7487 8271

## PROPAGATION

4763 5702 6519 6520 6521 6522 7460 7461 9836

## SOLID PARTICLES

4763 7433

## SPECTRA

7433

## STABILITY

1395 9835

## STRUCTURE

3028

## TEMPERATURE

2293

## TEMPERATURE MEASUREMENT

5705

## TURBULENT

3027 3904 6522 7459

## VELOCITY MEASUREMENT

3026 4767 5704 6535 7460 8237 9838

\*SEE ALSO--- COMBUSTION

FLAMMABILITY--- \*SEE\* COMBUSTION, INFLAMMABILITY

## FLIGHT

## SIMULATION

1303 1304 3837 5594 6417 6419

## UNSTEADY

2158 2160 2930 2931 4638

## FLIGHT TESTING

5584

## AIRPLANES

1304 3836 4639 5592 6410 9706

## FLIGHT TEST INSTRUMENTS

3838

## HELICOPTERS

2338

## FLIGHT TESTING \*CONTINUED\*

## MISSILES

3772 5622 5625

\*SEE ALSO--- INSTRUMENT ENGINEERING

## FLOCCULATION

2073 6322

FLOODS--- \*SEE\* STREAMS, NATURAL

## FLOTATION

55

## FLOW, COMPRESSIBLE

393 421 443 450 451 1186 1201 1202 1206 1273  
2086 2088 2161 2849 2871 2888 2889 3681 3692 3693  
3694 3714 4132 4134 4593 5466 5501 6340 6424 6426  
7182 7254 7268 8054 8891 8892 9009 9650 9652 9667

## CIRCULATION

447

## CRITICAL

1727 2872 5483

## EQUATIONS

2098 2099 2475 2874 2877 2878 3059 5503 5533 6347  
6358 6363 7231 8062 8888 9665

## FINITE ELEMENT METHODS

1050 6687 9162

## HYPERSONIC

484 1203 2096 2881 3706 4584 4604 5507 6346 7327  
8066 8067 8069 8081 8087 8090 8206 8877 8881 9659

## HYPERSONIC, AXISYMMETRIC

486 1204 1220 3703 3704 3705 4585 5509 5510 5511  
5512 5514 5515 5518 5555 6345 6347 6348 6349 6350  
7236 7237 7239 7240 7258 7260 7284 8070 8091 8896  
9657 9678

## HYPERSONIC, TWO-DIMENSIONAL

2879 2880 3705 3747 3771 4602 6560 7239 8068 8089  
8129

## IRROTATIONAL

3061

## MAGNETO-FLUID-DYNAMIC

2302 3079 5732 5734 6544 6552 6579 8275

## STABILITY

1323 6547 7483

## STRATIFIED

1323 4542 5451

## SUBSONIC

438 1249 2327 2921 3695 5505 6500 7256 7262 9651  
9653 9671 9672

## SUPERSONIC

430 444 481 516 1226 2092 2094 2097 2100 2101  
2101 2877 3701 3710 3712 4581 4582 4629 5528 5668  
6342 6343 6344 6356 7261 7265 8060 8061 8063 8072  
8073 8878 8879 8887 8924 8925 8926 9654 9655

## SUPERSONIC, AXISYMMETRIC

434 442 1198 1213 2093 2876 3469 3696 3718 5506  
5515 5534 6360 7272 7283 8058 9054

## SUPERSONIC, ONE-DIMENSIONAL

1258 2995 3709 6499 8282

## SUPERSONIC, TWO-DIMENSIONAL

432 436 441 1197 2876 3702 3707 4580 5504 5525  
6441 7234 7235 7238 7259 7282 8059 8065 8126 8264

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## FLOW, COMPRESSIBLE \*CONTINUED\*

## THREE-DIMENSIONAL

440 481 1199 1200 2875

## TRANSONIC

429 2089 2090 2091 2105 2873 2900 2920 3697 3698  
3699 3700 3796 5551 6341 6359 7232 7233 7247 7255  
7262 7263 7625 8056 8057

\*SEE ALSO--- AEROTHERMOACOUSTICS --  
AEROTHERMOCHEMISTRY --  
AEROTHERMODYNAMICS -- BODIES, COMPRESSIBLE  
FLOW PAST -- BOUNDARY LAYER --  
CONDENSATION, HIGH SPEED FLOW -- DETONATION AND  
DEFLAGRATION -- DIFFUSERS -- DRAG AND LIFT,  
COMPRESSIBLE FLOW -- FREE BOUNDARY,  
HODOGRAPH METHODS -- GASDYNAMICS --  
HEAT TRANSFER -- JETS -- LAMINAR FLOW,  
COMPRESSIBLE -- NOZZLES, COMPRESSIBLE  
FLOW -- OPTICAL TECHNIQUES -- OSCILLATIONS IN  
FLUIDS -- PIPE FLOW, COMPRESSIBLE --  
POROUS MEDIA, COMPRESSIBLE FLUID FLOW --  
RAREFIED GASES -- SHOCK WAVES IN FLUIDS --  
UNSTEADY FLOW, COMPRESSIBLE

## FLOW, INCOMPRESSIBLE

393 411 2133 2849 3205 3265 3266 4065 4132 4134  
5466 5479 5501 7182 7183

## CELLULAR

1329 1330 1331 2142 6327

## CIRCULATION

2416

## COUETTE

391 401 1155 1157 1192 2042 2067 2132 2828 2861  
2869 3055 3058 3923 3924 4576 4599 5474 5490 6296  
6297 6301 6303 6803 7198 7202 7227 7318 7414 8019  
8039 8133 8208

## EQUATIONS

424 1157 1171 1271 2043 2071 2083 2475 4165 4560  
5479 5487 5492 5493 5499 5500 6327 6331 7203 7206  
8869 8874

## EQUATIONS, LINEARIZED

425 593 1246 2413 2857 6335 8869 9645

## FINITE ELEMENT METHODS

8044

## IRROTATIONAL

402 1172 2850 4578 5467 5468 5469 5471 6312 7184  
8852 8854 9644

## NON-NEWTONIAN

391 422 1157 2042 2828 4528 9722

## NONVISCIOUS

1196 3066 4558 5467 5468 5469 5471 6312 7184 8852  
8854 9055

## NONVISCIOUS, ROTATIONAL

414 1171 4070 4544 7191

## NONVISCIOUS, STRATIFIED

491 1170 3674 3780 4544 4561 5470 7193

## ORIFICES

1174 1175 2064 2836 3676 4558 4573 6316 7175

## POISEUILLE

396 419 1157 2047 2894 3063 5478 5489 6296 6301  
6303 7204 7289 7293 8857 8858 8871 8872 9956

## STABILITY

409 419 464 470 1330 1331 1332 1334 1335 1525  
2047 2067 2075 2084 2281 2301 2867 2869 2941 3685  
3741 4528 4561 4562 4564 4574 4575 4648 4728 4732  
4734 4804 4806 5477 5499 5602 5662 5664 5667 6296

## FLOW, INCOMPRESSIBLE \*CONTINUED\*

## STABILITY \*CONTINUED\*

6303 6433 6493 6495 6545 6567 6683 7174 7196 7293  
7334 7417 8019 8133 8194 8196 8199 8200 8201 8260  
8822 8995 8996 9646 9647 9798 9800 9803 9804 9820

## VISCOUS

412 416 417 423 452 586 590 592 758 1176  
1178 1193 1235 1419 2083 2300 2863 2866 3678 3679  
3682 3688 3729 4562 4565 4606 5474 5479 5482 6328  
6543 6593 6743 7172 7197 7200 7205 7206 7212 7218  
7229 8040 8144 8834 8846 8851 8874 8875 8933 9057  
9626 9627 9644 9645

## VISCOUS, HEAT ADDITION

5550 6366 7293 9641

## VISCOUS, HIGH VISCOSITY

6860

## VISCOUS, LINEARIZED

2416 8040

## VISCOUS, MASS ADDITION

4570 8868 9645

## VISCOUS, MULTIFLUID

3054 4571 6691

## VISCOUS, MULTIPHASE

406 465 470 1181 1188 1271 1272 2072 3684 4543  
5487 6394 7207 7208 7209 8045 8046 8862 9642 9862  
9956

## VISCOUS, ROTATING

419 420 426 427 488 1331 1425 2062 2063 4570  
4803 5489 5851 7226 7583 8043 8142 8870 9639 9979

## VISCOUS, SECONDARY

420 1183 2052 7293

## VISCOUS, SMALL REYNOLDS NUMBER

418 1169 1194 2064 2076 2079 2239 2262 2855 2856  
4546 4563 4566 4730 5476 5497 6325 6326 6329 7212  
8030 8039 8042 8048 8859 8860 8866 8868 9723

## VISCOUS, STRATIFIED

463 488 492 493 494 1182 1195 1525 2142 2861  
2869 2909 3741 6311 6399 7334 8115 8134 8873 9979

## VISCOUS, VARIABLE FLUID PROPERTIES

2050 7198 8052

\*SEE ALSO--- BODIES, INCOMPRESSIBLE FLOW PAST --  
BOUNDARY LAYER, INCOMPRESSIBLE FLOW --  
CAVITATION -- DRAG AND LIFT, INCOMPRESSIBLE  
FLOW -- FLOW MEASUREMENT -- HYDRAULICS --  
HYDROLOGY -- JETS -- LAMINAR FLOW,  
INCOMPRESSIBLE -- MULTIPHASE FLOW -- NOZZLES,  
INCOMPRESSIBLE FLOW -- OSCILLATIONS IN FLUIDS --  
PIPE FLOW, INCOMPRESSIBLE -- POROUS MEDIA,  
INCOMPRESSIBLE FLUID FLOW -- POTENTIAL THEORY,  
FLUID FLOW -- ROTATING CYLINDERS, FLOW BETWEEN --  
ROTATING DISKS, FLOW BETWEEN -- ROTATIONAL FLOW --  
SECONDARY FLOW, INCOMPRESSIBLE -- TURBULENCE --  
UNSTEADY FLOW, INCOMPRESSIBLE -- VORTEX FLOW --  
WAKES -- WINGS, INCOMPRESSIBLE FLOW

## FLOW, INTERNAL

1212 2087 2104 2105 2109 3692 3693 3694 3695 3713  
3714 3720 3797 4585 6355 6358 7360 7363 8080 8146  
9657 9673 9839

## ANNULAR PASSAGES

1179 1180 2052 3663 3665 4565 5489 6361 7201 7214  
9650 9669

## DUCTS, CONSTANT AREA

398 1159 3664 3696 3717 6364 7186 7251 8084 8086  
9671

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## FLOW, INTERNAL \*CONTINUED\*

## DUCTS, VARIABLE AREA

1213 1214 2088 2837 2891 2948 3707 3718 3722 4583  
4594 4595 6357 7233 7253 7257 9668 9672

## FLOW MEASUREMENT

1169 2072 2073 3816 3820 5496 6450 6671 8165 8862  
8964 8965 9748 9750 9751 9839

## ELECTRONICS

513 6324 8846 8963

## ISOTOPE TYPE

410 9685

## MAGNETO-FLUID-DYNAMIC

6594 7496 9056

## NOZZLES

512 574 8968

## ORIFICES

1162 1216 1294 2112 2113 2182 3818 7175 7273 8030  
8967

## VARIABLE AREA

9749

## VOLUMETRIC METERS

8965

\*SEE ALSO\*--- HOLOGRAPHY -- PRESSURE  
MEASUREMENT -- HYDRAULIC STRUCTURES, WEIRS

## FLOW IN THIN FILMS---\*SEE\* THIN FILMS, FLOW

FLOW THROUGH GRIDS AND SCREENS--- \*SEE\* GRIDS AND  
SCREENS, FLOW THROUGHFLOW THROUGH POROUS MEDIA--- \*SEE\* POROUS MEDIA,  
FLUID FLOW, WITH MODIFIERSFLOW VISUALIZATION--- \*SEE\* OPTICAL TECHNIQUES, FLOW  
VISUALIZATION

## FLUE GASES

6527

\*SEE ALSO\*--- AIR PREHEATERS

## FLUID POWER

509 807 2177 2523 3334 4187 4673 4678 6449 7368  
8159

## CONTROL

59 7676

## TRANSMISSION

3644 4186 5502 7994 9611

## FLUIDICS

57 807 4639 6799 7185

## FLUIDIZED BEDS--- \*SEE\* BED, FLUIDIZED

## FLUTTER

8313 9081

FEBRUARY FEATURE ARTICLE

## PANELS

619 1450 1452 1453 1835 2330 2332 3454 3476 3973  
3974 5759 6596 8284 8285 8288 8634 9896

## PANEL STRUCTURES

3972 8287

## SMELLS

621 622 1451 1454 2331 5760 5761 9090 9093 9094  
9899

## FLUTTER \*CONTINUED\*

## STABILITY

1450 1451 1453 1454 3973 3974 5759 5764 9892 9899

## SUBSONIC FLOW

1450 1453 2331 2333 3974 5763 9091 9893 9894 9897

## SUPERSONIC FLOW

621 1452 1454 2332 3973 5760 5761 5764 6596 8285  
8288 9093 9892 9896

## TAILS AND CONTROL SURFACES

6595 9091

## TESTING

2330 5758 5763

## TURBOMACHINES

3975 8286 9741

## WINGS

618 3972 5757 6595 9893

\*SEE ALSO\*--- HYDROFOILS, FLUTTER -- OSCILLATIONS  
IN FLUIDS -- UNSTEADY FLOW -- VIBRATION, AIRPLANES

## FLYING BOATS--- \*SEE\* SEAPLANES AND FLYING BOATS

## FORGING

1905 3496 4376 5309 6170 7050 9517

\*SEE ALSO\*--- DRAWING -- EXTRUDING -- FORMING --  
ROLLING

## FORMING

125 269 271 275 4102 7885 7886 8533

## EXPLOSIVE

276 3537

## METAL

131 137 1069 1738 1742 3376 3523 4375 6011 6167  
6169 6175 6862 7716 9514 9516

\*SEE ALSO\*--- DRAWING -- EXTRUDING -- FORGING --  
ROLLING

## FOUNDATIONS

1059 1899 2979 3507 3508 3621 3622 4052 4482 7838  
7882 8617 9455 9508 9509

## DEEP FOUNDATIONS

1054 1055 1896 1897 2742 2743 4352 4355 5305 8680

## FOOTINGS

248 251 253 1054 1055 2742 2743 2812 3510 3511  
3513 4345 4346 4347 4348 4349 4350 4355 4356 4357  
4358 4359 5289 5301 5304 5306 6141 6146 6147 6148  
6149 6150 7007 7022 7026 7027 7030 7031 7032 7033  
8670 8675 8676 8677 8678 8679 9504 9510 9511 9512

## MACHINE FOUNDATIONS

7823

## PIERS

350 4357 5383 6255 7986

## SETTLEMENTS

253 254 1053 1892 1894 3509 3510 3512 4339 4355  
4359 5289 5304 6133 6141 6144 7023 7028 7029 8677  
8680 8681 9498

## SHALLOW FOUNDATIONS

4351 5306 6138 6142 6143 6145 7010 7018 7024

## SHEET PILES

255 257 1896 2744 4354 5308

\*SEE ALSO\*--- ELASTIC FOUNDATIONS -- GRILLAGES --  
SOIL MECHANICS -- VIBRATION, FOUNDATIONS

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## FOURIER SERIES--- \*SEE\* SERIES EXPANSION AND OTHER APPROXIMATIONS, FOURIER SERIES

## FRACTURE

1080 1082 1085 1916 2751 2752 3538 3539 4132 4134  
5319 6180 6181 6182 6183 6184 7612 8704 8705 8706  
9521 9525 9526 9527 9535

## ANALYSIS

283 1086 1723 1924 3542 4389 4390 4391 4392 4394  
4397 5329 5344 6206 7045 7880 7881 8707 8708 8709

## BRITTLE

278 2592 2750 3541 3543 4384 4399 5322 5323 6185  
6192 6232 6237 7043 7057 8710 9522 9523 9524

## CREEP

2592 2753 6854

## DUCTILE

6186

## FATIGUE

291 1094 8715 8716 8717 8718 8719 8720 8721 8722  
8723 8724 8725 8726

## MECHANICS

273 277 279 384 1072 1078 1727 1917 1918 1919  
1920 1921 1922 1923 1936 2596 2748 2749 2755 4369  
4370 4372 4386 4387 4412 4422 4493 5325 6188 6189  
6193 6194 6197 7046 7054 7055 7897 7898 7899 8711  
8712 8713 9520 9529

## SPALLATION

6118 6120 7032 7044

## TESTING

294 1079 1083 1092 1110 3540 3544 4388 4393 4446  
4447 4448 4450 5318 5321 5345 6237 6238 7070 7073  
7910 8714 8744 9536

## TOUGHNESS

1081 2765 4400 4449 5357 9622

\*SEE ALSO\*--- CRACK PROPAGATION -- FATIGUE --  
MATERIAL TEST TECHNIQUES, FRACTURE TOUGHNESS --  
STRESS CORROSION CRACKING

## FRAMES AND BENTS

1001 4481 6260 6945 8607 9456

## ANALYSIS

346 347 874 877 1128 1129 1130 1131 1132 2019  
2801 2802 3604 3619 3623 3624 3627 3628 4485 5406  
5421 6246 6257 6258 6267 6273 7132 7958 7975 7976  
7987 8757 8761 8777 8777 9569 9589

## DESIGN

1995 3588 3589 3617 4484 7131 7134 7959 8766 8772  
9590

## SPACE

4498 9587 9588

## STRESSES AND DEFLECTIONS

877 6291 7863

## TESTING

1997 4465 7110 7133 7974 8760

\*SEE ALSO\*--- BUCKLING, FRAMES -- VIBRATION,  
STRUCTURES

## FREE BOUNDARY

7627 9192

## CAVITIES

1173 4083 4557 7177

## FLOW

2863 2877 3798 5472 5501 5528

## FREE BOUNDARY \*CONTINUED\*

## HODOGRAPH METHODS

2853 7194 7353 8961

## WAKES

4596

\*SEE ALSO\*--- CHANNELS, OPEN, FLOW

FREE CONVECTION--- \*SEE\* HEAT TRANSFER, CONVECTION

FREE-MOLECULE FLOW--- \*SEE\* RAREFIED GASES

FREE SURFACE---\*SEE\* FREE BOUNDARY

## FREEZING

7018 7019

## FREON

2185 2204

## FRETTING

1568 4104

\*SEE ALSO\*--- CORROSION -- FATIGUE, FRETTING --  
WEAR

## FRICTION

749 1082 2432 3226 4087 4095 4102 4966 4974 5236  
5248 5865 5867

## ROLLING, SOLID AND SOLID

2431 2433 2438 2442 3236 3238 4100 4108 4109 4963  
6725 7601 8381 8804 10009 10010 10016

## SLIDING, SOLID AND FLUID

4103 4107 4110 4971 4972 5870 6729 7592 7593 7595  
8389 8390 8392 10008 10009

## SLIDING, SOLID AND SOLID

743 744 745 750 1538 1567 1569 1572 1856 2021  
2430 2443 2444 3227 3228 3233 4090 4091 4092 4093  
4094 4096 4097 4099 4964 4965 4967 4968 5866 5963  
6289 6721 6722 7152 7586 7587 7588 7589 7590 7602  
7733 8382 8383 8384 8385 8391 8807 9197 9198 9201  
9205 10004 10005 10006

\*SEE ALSO\*--- DAMPING CAPACITY OF MATERIALS

## FUELS

## GASEOUS

9842

## LIQUID

1232 2980 3038 3897 4723

## NUCLEAR

4786 6672

## PETROLEUM

1371 8221

## REGRESSION RATE

3034 9844

## SOLID

1408 9043

\*SEE ALSO\*--- COMBUSTION, LIQUID FUELS --  
ROCKETS, LIQUID FUEL -- ROCKETS, SOLID FUEL

FUEL SLOSHING--- \*SEE\* LIQUID SLOSHING

## FURNACES

569 2253 6528 7465 8210

\*SEE ALSO\*--- HEAT TRANSFER, FURNACES

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## G

GAME THEORY  
2531 8438GAS TURBINES--- \*SEE\* TURBINES AND TURBOMACHINERY,  
GAS

## GASES--- \*SEE\* UNDER MODIFIER

GATES, HYDRAULIC--- \*SEE\* VALVES AND GATES,  
HYDRAULIC

## GEARS

371 372 377 1722 3124 4104 6274 7155 7156 7988  
7996 9193

## DESIGN

2025 3637 3638 4908 4509 4510 4511 4512 5431 5432  
5433 5434 6177 6286 7134 8800 9612

## FATIGUE AND WEAR

749 6285 6287 8388 8801

## KINEMATICS

3637 3638 3646 3648 6177

## LUBRICATION

4507

## TRAIN

2820 3636 3637 7154 9613

\*SEE ALSO--- LANDING GEARS -- VIBRATION, GEARS --  
WEAR

## GEOPHYSICS

35 828 1532 1533 1539 1556 2406 2408 2413 2928  
3084 3087 3186 3187 3188 3189 3192 3195 3196 3197  
3198 3962 4054 4056 4057 4058 4061 4795 4916 4918  
4919 4921 4923 4924 4932 5840 5841 5842 5843 5849  
5850 6488 6489 6582 6692 6693 6698 6700 7560 7561  
7562 7564 7565 7566 7567 7569 7570 8354 8355 8357  
8358 8364 8371 9163 9164 9165 9166 9168 9178 9962  
9963 9964 9965 9966 9967

## EXPLORATION

713 1535 2407 3190 3193 3194 3958 4059 6162 6694  
6695 6696 6697 6699 7563 8352 8353 9968

## \*SEE ALSO--- PLASTICITY, GEOPHYSICS

## GIRDERS

344 1993 1994 2807 2808 3606 4486 5405 7071 7106  
7143 9531

## GLASS

1967 2752 4536 6660 6860 7055 7097 9147 9792

## GLASS FIBERS

121 1084 3531 3532 3533 4417 6184 8005

## GLIDERS

3771 8931

## GRANULAR MEDIA

241 1386 1514 1516 1887 2403 3165 3166 3173 3878  
4038 6663 7136 7870 8337 8338 8622 8663 9488 9953  
9954 9960

## FLOW OF

252 1523 2020 3172 4522 5833 6664 6665 6671 9359  
9955

## FLOW THROUGH

1368 1899 3177 4039 4040 6132 8841 9159

\*SEE ALSO--- PARTICLES -- POROUS MEDIA --  
WAVES, GRANULAR MEDIA

## GRAPHICAL METHODS

2741 5267 6292 7723 8676

## GRAPHITE

1079 1729 7065 7939

## GRAVIMETRICS

828 8492 9314

## GRAVITY WAVES IN LIQUIDS

2414 2417 4065 4926 4928 6331 7182 7187

## BEACHES

2848 4647 5598 9169

## BORE

8140 8830 8832

## BOTTOM DISCONTINUITIES

4556

## BOTTOM IRREGULARITIES

5598 6422 7337

## BOUNDED MEDIA

3782

## BREAKING

1264

## BREAKWATER

8836

## CAPILLARY

5603

## EFFECT OF SURFACE BARRIER

2415 3778 6423

## ENERGY SPECTRUM

1267 2935 5595 7340

## ENERGY TRANSPORT

498 729 3207 5597

## FINITE DEPTH

1260 2936 6429 9737

## HYDRAULIC JUMP

5456

## NONLINEAR THEORY

1266 2935 2936 2940 3776 4556 4645 4646 5459 5599  
5600 5603 7337 9726

## OCEAN

1267 4064 4133 4545 7572 7575 9175 9176 9178

## OPEN CHANNELS

1260 3671 3672 4556 5457 7187

## ROLL WAVES

2942 8908

## ROTATING FLUID

2937 3776 3778 4645 8136

## SHALLOW WATER

497 1264 2167 3204 3777 4647 8935 9727 9974

## SLOPING BOTTOM

4647 4929 6702

## SOLITARY

497 5598 8938

## STANDING WAVES

5601

## STRATIFIED

498 1259 2933 2938 2940 3790 4645 4646 5596 5597  
6311 6422 8136 8939

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## GRAVITY WAVES IN LIQUIDS \*CONTINUED\*

SURFACE WAVE PROFILE  
1263 2163 2937 3671 3672 3783

SWELL  
9177

TSUNAMI  
1545 4064

TWO-DIMENSIONAL  
1265 5459 8363

VISCOUS EFFECTS  
1261 2938 5595 6429 6430 9727

WAVE ABSORBER  
3208

WAVEMAKER  
2169 2933 3777 3782 6430

WAVEMAKING RESISTANCE  
5459

WIND GENERATED  
499 722 1263 1540 1543 1544 2935 3204 3210 3785  
4066 5844 5846 5848 6701 7577 9175 9177 9974 9981

\*SEE ALSO\*--- DOCKS -- HYDRAULIC STRUCTURES,  
BREAKWATER

GRIDS AND SCREENS  
8776

FLOW THROUGH  
1176 6719 9053 9157

GRILLAGES  
169 906 1753 3387 3413 4489 5407 6150 7033 8589  
8776

\*SEE ALSO\*--- VIBRATION, GRILLAGES

GRINDING  
1077 1912 3230 3331 3535 5317 6174 6178 8702

\*SEE ALSO\*--- CUTTING PROCESSES -- FINISHING

GROUND EFFECT MACHINES  
1566 2169 4085 6603 7038 9105

\*SEE ALSO\*--- AERODYNAMIC INTERFERENCE, GROUND  
EFFECT -- HYDROFOILS, CRAFT -- STOL -- VTOL

GROUND WATER--- \*SEE\* HYDROLOGY, GROUNDWATER

GUIDANCE SYSTEMS  
8473

INERTIAL  
78 1696 5068 7672 8496 9288

MISSILES  
5788 7673

STABILITY  
78

\*SEE ALSO\*--- SPACE NAVIGATION AND GUIDANCE

GUIDED MISSILES--- \*SEE\* MISSILES

GUST LOADS  
487 3698 3766 3774 6410 6417 6421 7333 8932 9718  
9719 9720 9721

\*SEE ALSO\*--- AIRPLANE, DYNAMIC LOADS

## GYROSCOPES

1689 2557 4207 5937 5956 6097 6798 6820

OSCILLATION  
830 6816 6817

ROTARY  
8496

STABILITY  
78 1686 1696 5973 9319 9320 9321

\*SEE ALSO\*--- GUIDANCE SYSTEMS, INERTIAL -- SPACE  
NAVIGATION AND GUIDANCE

## H

## HARBORS

3201 7573

## HARDENING

296 743 3238 5440 5805 6287 8801

## HARDNESS

134 1968 3577 4451 4452 4453

\*SEE ALSO\*--- MATERIAL TEST TECHNIQUES, HARDNESS

HEAT CONDUCTION--- \*SEE\* HEAT TRANSFER, CONDUCTION

HEAT CONVECTION--- \*SEE\* HEAT TRANSFER, CONVECTION

## HEAT EXCHANGERS

54 397 546 562 1316 1374 1375 1378 1381 2222  
2245 2261 2271 2272 2973 2985 3003 3006 3009 3012  
3013 3014 3015 3856 3888 3889 4750 5692 5693 5697  
6504 6506 6507 6508 7451 8225 9019 9021 9801 9827  
9829 9830

## NUCLEAR REACTORS

1340 2213 2257 4724 5690 6487 7425 8198 8225 9809  
9810 9811 9828

## UNSTEADY STATE

2975 2983 3006 3890 4751 4752

\*SEE ALSO\*--- AIR PREHEATERS -- BOILERS

## HEAT PUMPS

8182

\*SEE ALSO\*--- REFRIGERATION, AIRCONDITIONING

HEAT RADIATION--- \*SEE\* HEAT TRANSFER, RADIATION

## HEAT TRANSFER

1210 1317 1388 2090 2101 2973 3681 3856 3892 4555  
4756 4855 5505 5694 6379 6666 7580 8045 8062 8191  
9024 9763

## BIOLOGICAL

3020

## BLADES, TURBOMACHINERY

2175 3893 4781

## BOILING, FORCED CONVECTION

1360 1370 1379 2256 2259 2265 2266 2267 2280 2999  
3000 3001 3002 3010 3011 3861 3875 3876 3877 3880  
3881 5682 5684 5686 5690 6332 6503 7441 7445 7448  
7449 7450 7451 8198 8222 9014 9794 9820 9828

## BOILING, POOL

531 558 1358 1359 1361 1362 1363 1364 1365 2256  
2267 2279 2998 3861 3881 4746 4747 5682 5683 5685  
5687 7442 7443 8218 8219 8220 8223 9013 9033 9819

## BOUNDARY LAYER

455 1346 2215 2225 2241 2881 2981 2984 2986 3850

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## HEAT TRANSFER \*CONTINUED\*

## BOUNDARY LAYER \*CONTINUED\*

3864 3882 3895 3898 3898 4611 4722 4729 4748 4749  
 5653 5664 5666 5683 6375 6491 6492 7403 7408 7413  
 7422 7431 7453 8119 8195 8197 8202 8205 8213 8224  
 8992 8998 8999 9000 9002 9020 9024 9028 9029 9031  
 9799 9808 9813 9817 9822 9823 9825

## JANUARY FEATURE ARTICLE

## CHEMICAL REACTION PRESENT

1389 2243 2262 2282 3892 3899 5698 5708 6509 6511  
 7453 9022 9028 9029 9030

## COMBINED MECHANISMS

2985 3869 3883 8991 8998 9806

## CONDENSATION

559 567 1372 1373 2268 2269 2278 3185 3884 3902  
 4539 4748 5668 5688 5689 5697 6504 7446 7447 8223  
 9016 9017 9018 9821 9822 9823

## MAY FEATURE ARTICLE

## CONDENSATION, NONCONDENSABLES

1372 1373 4749 6504 8224 9018

## CONDUCTION, INTERNAL SOURCES

544 2212 2216 2977 2978 4786 5643 5644 5648 5652  
 6482 6494 6874 8986 8987 9784 9791 9793

## CONDUCTION, NUMERICAL METHODS

1345 1612 2220 3275 3306 3886 4721 5002 5643 5645  
 5651 7407 7627 8986 8989 9786 9788 9789 9795

## CONDUCTION, STEADY

539 546 1316 1347 1353 2219 2221 2246 2252 2976  
 2996 3004 3853 3855 3857 3867 3869 4599 4726 4727  
 4739 4761 5643 5644 5646 5648 5651 5669 5673 6484  
 6485 7436 8209 8228 9783 9787 9791 9809 9811 9829

## CONDUCTION, UNSTEADY

544 1315 1318 1319 1320 1321 1354 1355 1362 1366  
 2106 2211 2212 2213 2216 2217 2218 2220 2233 2274  
 2976 2977 2978 2979 2983 2992 3016 3850 3851 3853  
 3868 3874 3886 3890 4721 4722 4725 4727 4736 4739  
 4742 4745 5642 5645 5647 5649 5650 5658 5681 6353  
 6482 6497 6512 7404 7405 7406 7407 7408 7409 7440  
 8187 8188 8189 8190 8216 8227 8986 8988 8989 8994  
 9023 9028 9784 9785 9786 9788 9789 9790 9795

## CONTACT RESISTANCE

539 1343 2218 3858 3867 5640 5650 7411 8990 9811

## CONVECTION, FORCED

561 1328 1336 2223 2230 2983 2997 3006 3014 3015  
 3023 3822 3869 3883 4752 6507 6508 7292 7415 8192  
 8222 9793 9795

## CONVECTION, FORCED, GASES

540 547 560 568 1342 1378 2242 2258 2262 2270  
 2975 2985 3021 3859 3860 3865 3882 3885 3895 3898  
 3899 4730 4740 4741 4751 4754 4758 4760 5512 5641  
 5656 5663 5698 5699 5700 6511 6512 6516 7427 7428  
 7429 7430 7456 8205 8206 8213 8215 8991 9000 9025  
 9028 9030 9031 9032 9797 9801 9805 9808 9812 9813  
 9827 9830

## CONVECTION, FORCED, LAMINAR

542 548 1324 1325 1326 1327 1374 2215 2224 2231  
 2232 2246 3008 3017 3854 4528 4731 4733 4755 5073  
 5654 5660 5670 7403 7412 7416 8204 8207 8208 8906  
 8987 8992 8994 8998 9760 9806

## CONVECTION, FORCED, LIQUIDS

2229 2231 3004 3056 4729 4731 5661 6502 6690 7414  
 7425 7426 8198 8225 8993 9004 9011 9792 9796 9808  
 9809 9810 9811 9814 9825 9826

## CONVECTION, FORCED, MIXTURES

564 5678

## CONVECTION, FORCED, TRANSITION

4528 4608 9797

## HEAT TRANSFER \*CONTINUED\*

## CONVECTION, FORCED, TURBULENT

553 560 1322 1378 2226 2227 2228 2229 2249 2893  
 2913 3003 3007 3882 3891 4608 4609 4757 5678 6486  
 6487 6496 6513 6514 7413 7426 8225 8226 8987 9020  
 9029 9808 9826

## CONVECTION, FREE

1233 1329 1330 1331 1332 1333 1334 1335 1336 1338  
 1339 2236 2237 2239 2257 2982 2984 2987 3742 3863  
 3864 3883 4721 4732 5666 5667 6488 6489 6493 6557  
 7417 7418 7421 7423 7445 7452 8194 8195 8196 8199  
 8200 8201 8203 8204 8995 8996 9024 9795 9798 9800  
 9803 9804 9807

## CONVECTION, FREE, GASES

457 2240 2985 3859 4735 4748 5655 8197 8991 8997  
 9008

## CONVECTION, FREE, LAMINAR

543 2225 2238 2981 4567 4619 4731 5654 5659 6491  
 6492 7431 8202 8998 8999 9799 9802 9806

## CONVECTION, FREE, LIQUIDS

543 545 1431 2234 2235 2255 2281 2986 2988 2989  
 3874 3893 4728 4731 4734 4746 6490 6495 7416 7424  
 8220 9002 9003

## CONVECTION, FREE, TRANSITION

4735 5662 5664 5667

## CONVECTION, FREE, TURBULENT

541 545 3022 4722 4735 5653 5665 6490 7419 7420  
 7422

## CRITICAL HEAT FLUX

1358 1359 1363 2259 3002 3876 3880 4568 5684 5687  
 5690 7441 7442

## CRITICAL REGION

561 1322 2258 2993 2997 2998 3011 3012 3883 6491  
 6505 7420

## CRYOGENICS

554 1341 2997 3013 3857 4723 4746 7423 9024

## DIRECT CONTACT

566 1375 1392 2264 2278 3018 3877 3901 4749 4755  
 5688 7455 8223 8224 9015

## DROPLETS

563 566 1357 1375 2262 2264 2269 2278 3009 3018  
 3020 3851 3861 3877 4755 5688 7457 9015 9016 9017  
 9018

## DUCT FLOWS

542 548 560 561 564 567 1158 1324 1326 1327  
 1328 1337 1345 1355 1360 1370 1374 1376 2050 2051  
 2059 2222 2224 2227 2228 2231 2232 2234 2238 2246  
 2249 2258 2265 2266 2280 2978 2993 2997 3000 3004  
 3006 3007 3008 3017 3854 3860 3875 3876 3877 3880  
 3883 3927 4723 4731 4733 4745 4757 4760 5484 5641  
 5654 5656 5659 5660 5670 5684 5686 6306 6486 6487  
 6496 6502 6503 6507 6513 6514 7403 7412 7414 7416  
 7424 7426 7444 8193 8204 8205 8207 8208 8222 8226  
 8987 8993 8994 9004 9011 9794 9797 9805 9809 9810  
 9814 9824 9826 9828

## ELECTRICAL MACHINES

1318 3005

## EVAPORATION

562 565 566 733 1392 2263 2278 2283 2980 3000  
 3018 3861 3879 3882 3884 3891 5688 5697 7444 7454  
 8221 9015 9819 9825

## EXPERIMENTAL METHODS

6332

## EXPLOSIONS

1348 6498 7246 7438

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## HEAT TRANSFER \*CONTINUED\*

## EXTENDED SURFACES

546 1316 2271 3003 4750 5673 8209 9827 9829

## FLAMES

5705 6529

## FLUID PARTICLES

3020

## FLUIDIZED BEDS

564 1377 2274 2275 2401 3006

## FURNACES

2251 2253 2276 4737 4738 6509 6529 6530 7435 8210  
8211 8229

## G-VARIATION EFFECTS

1365 2240 2984 3001 7423 7443

## HIGH TEMPERATURE

2228 2250 2990 4744 6498 6499 6501 8228 8229 9000  
9831

## INSULATION

2980 4726 7019 9783 9787

## INTENSIFICATION OF HEAT TRANSFER

562 1376 2095 2222 2223 2271 3891 4750 5656 7418  
8117 8993 9024 9801 9829

## LIQUID METALS

530 553 558 1340 1341 1373 2227 2986 3875 3880  
4734 5685 7425 7426 7441 7448 7449 7450 8218 9001  
9809 9810 9811

## MEASUREMENTS

1158 2248 5658 5672 5675 5679 5701 6483 6517 7019  
7380 7404 7405 8049 8227 8228 9023 9831

## MELTING OR FREEZING

1354 1355 1357 2255 2734 2734 2974 2996 3851 3874  
4725 4745 5681 6502 6511 6512 7408 7440 8216 9011  
9012 9795

## NON-NEWTONIAN FLOWS

548 2232 5657 5670 6495 6496 7414 7431 8207 8208  
9002 9003 9004 9814

## NON-STEADY FLOW

1325 2275 3860 4593 4752 4754 5656 6492 6509 8222  
9805 9830

## PACKED BEDS

524 555 1386 5640 9022

## PLASMA

2250 5701 6573 8271 8272 9077

## POROUS MEDIA

384 1343 1349 1368 1369 1389 2975 3185 3878 4761  
5640 5663 6690 8350

## RADIATION

632 732 733 1553 2098 2099 2242 2250 2256 2992  
2993 2994 3855 3857 3869 4074 4739 4761 4943 5507  
5512 5523 6497 6529 6707 7452 7582 8216 8228 8372  
8880 9183 9659 9786 9787 9985

## RADIATION AMONG SURFACES

549 555 2245 2248 2253 3112 4736 4737 4738 5641  
5652 5671 5673 5677 5680 5683 5842 7432 7435 7437  
8209 8210 8211 9005 9006 9007 9815

## RADIATION, INSTRUMENTS

551 3215 4947 8365 9831

## RADIATION, PARTICIPATING MEDIA

550 552 554 556 557 1344 1346 1347 1348 1350  
1351 1352 1353 2244 2247 2249 2251 2252 2990 2991  
2995 3870 3871 3872 3873 3894 4589 4726 4738 4740

## HEAT TRANSFER \*CONTINUED\*

## RADIATION, PARTICIPATING MEDIA \*CONTINUED\*

4741 4742 4743 4744 4935 5674 5678 6498 6499 6500  
7434 7435 7436 7437 7438 8197 8210 8212 8213 8214  
8215 9008 9009 9010 9658 9792 9816 9817

## RADIATION PROPERTIES

549 550 551 552 554 556 557 2244 2247 2254  
2990 3894 4726 4744 5672 5675 5676 5679 5680 5847  
5856 6501 7433 7568 8214 9027 9819 9818

## RAREFIED GASES

1553 4730 5663 5669 5688 5696 8084 8091 9018 9674  
9676

## ROTATING FLOWS OR SURFACES

1325 1331 1337 2219 2230 2268 2999 3005 3951 4721  
6488 6489 6510 7421 7423 8208 8986 9020 9821

## SEPARATED FLOWS

540 568 2223 2270 5655 7415 8192 8206 8226 9813  
9824

## SIMILARITY METHODS

1336 2225 2267 2984 3076 4755 5681 7406 7453 8195  
8992 9799 9822

## SOIL

1314 2974 3879 9163

## SOLIDIFICATION

1355 1356 3004 3874 4725 6502 7440 9011 9026 9795

## STAGNATION POINT

1350 3021 3704 3704 3865 3894 3895 3899 4740 4741  
5529 7427 9025 9796 9812

## SUBLIMATION

3017 3021 5696 6510 6511 9025 9818

## SUPERSONIC OR HYPERSONIC

547 2242 3767 3865 3895 4586 4740 4741 5512 5663  
6348 6349 6350 6412 6516 7427 7428 7429 7430 7456  
8059 8067 8193 8206 8215 9025 9027 9032 9812 9813

## SURFACE MASS TRANSFER

1390 2111 3822 3885 3896 3898 4733 4758 4760 4761  
5699 5700 6513 7456 8224 9024 9031 9032 9033

## SWIRL OR CELLULAR MOTIONS

1330 1333 1337 1338 1339 1376 2234 2235 2236 2237  
2982 2988 2989 3863 4732 5661 5684 6507 7416 7418  
7448 8192 8203 8206 8226 8993 9016 9824

## SURFACE ROUGHNESS EFFECT

8226 9024 9813 9818

## THERMAL CONVECTION

1329 1330 1331 1332 1334 1335 2281 2982 2988 2989  
3863 4721 4728 4732 4734 5665 6488 6489 6490 6493  
6495 7417 7421 7423 8194 8196 8199 8200 8201 8995  
8996 9798 9800 9803 9804 9807

## TURBULENT

530 541 545 729 734 2196 2226 2229 2901 8119  
9024

## TWO-PHASE FLOW

384 563 564 567 1158 1360 2072 2074 2259 2265  
2266 2280 2859 2860 3002 3880 3884 4539 4567 4568  
4569 5484 5486 5686 6503 6504 6505 7207 7441 7442  
7445 7447 7448 7449 7450 7451 7455 8217 8222 9001  
9014 9794 9828

## VIBRATION EFFECT

649 3122 3859 6719 7446 8025 8220 9012

\*SEE ALSO--- ABLATION -- AERODYNAMIC HEATING --  
AEROTHERMODYNAMICS -- ANALOGIES, HEAT TRANSFER --  
BOILERS -- BOUNDARY LAYER -- COMBUSTION, HEAT  
TRANSFER ASPECTS -- CRYOGENICS --  
CUTTING PROCESSES -- DIFFUSION, THERMAL --

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## HEAT TRANSFER \*CONTINUED\*

\*SEE ALSO\*--- \*CONTINUED\*

DRYING -- FLOW, INCOMPRESSIBLE, VISCOUS, HEAT  
 ADDITION -- FREEZING -- FURNACES -- LIQUID FILM,  
 COOLING -- LIQUID METALS -- MAGNETO-FLUID-  
 DYNAMICS, HEAT TRANSFER -- MASS TRANSFER,  
 EVAPORATION -- MASS TRANSFER, TRANSPIRATION OR  
 FILM COOLING -- METEOROLOGY, HEAT TRANSFER --  
 MODEL STUDIES, HEAT TRANSFER -- PARTICLES, HEAT  
 TRANSFER -- SPACE VEHICLE HEAT TRANSFER --  
 THERMODYNAMICS -- THERMOELASTICITY --  
 THERMOPHYSICAL PROPERTIES -- TURBINES AND  
 TURBOMACHINERY -- VARIATIONAL METHODS, HEAT  
 TRANSFER -- WINGS, HEAT TRANSFER

## HEAT TREATMENT

296 1067 1082 1907 1928 3557 4446 5315 5652 7886  
 8703

\*SEE ALSO\*--- STRESS RELIEVING

## HEATERS

5691 5721 6494 9019

## HEATING AND VENTILATION

3016 3887 3888 5691 9724 6478 7439

\*SEE ALSO\*--- REFRIGERATION, AIRCONDITIONING

## HELICOPTER

2338 3759 3978 6411 6599 6600 7330 9102 9104

## ROTOR

642 647 2147 3123 3978 5793 6601 7322 7527 8910  
 9092 9097 9098 9103

\*SEE ALSO\*--- VIBRATION, HELICOPTERS

## HELIUM

528 529 560 1358 3897 9026

## HIGH LIFT DEVICES

1248 1251 1257 2152 2915 2921 4637 5590 7378

## HIGH PRESSURE

2355

## APPARATUS

5310 7888

## SOLIDS

7888 9348

## SYSTEMS

4677

## TESTING

1105 8738

\*SEE ALSO\*--- MATERIAL TEST TECHNIQUES, HIGH  
 PRESSURE -- PRESSURE EXCHANGE -- PRESSURE  
 VESSELS -- THERMODYNAMICS -- THERMOPHYSICAL  
 PROPERTIES

## HIGH TEMPERATURE PROPERTIES OF MATERIALS

317 1087 3651 4087 4445 4454 5638 6196 6854 8748  
 9562

## FERROUS METALS

1747 2592 2793 3376 4384 4401 5309 6190 9361

## NONFERROUS METALS

898 3376 3554 4376 6020 8978 9361 9550

## NONMETALS

1729 7718 7939 8178 8179

## HIGHWAYS AND RUNWAYS

2015 2456 8682

## HIGHWAYS AND RUNWAYS \*CONTINUED\*

## CONSTRUCTION

246

## PAVEMENT DESIGN

2745

## SUBGRADE DESIGN

1052 2745 4351

\*SEE ALSO\*--- BRIDGES, HIGHWAY -- TRAFFICABILITY

## HISTORY OF SCIENCE AND TECHNOLOGY

760 4135 4989 9166

## HOLOGRAPHY

1963 2714 2780 3826 4432 5754 6644 7917 9139 9544  
 9549 9747

\*SEE ALSO\*--- LASERS

## HUMAN ENGINEERING

3241 4112 4115 5024 8408

\*SEE ALSO\*--- BIODYNAMICS -- BIOMECHANICS --  
 MAN-MACHINE SYSTEMS

## HYDRAULIC JUMP

6310 6427

\*SEE ALSO\*--- GRAVITY WAVES IN LIQUIDS, HYDRAULIC  
 JUMP

## HYDRAULICS

393 2414 2849 3200

## DENSITY CURRENTS

8163

## DYNAMICS OF LIQUIDS

1545 2054 2849 3205 4555 5466 7182 7183 9734

## PROPERTIES OF LIQUIDS

9634

## STATICS OF LIQUIDS

2168 7342

\*SEE ALSO\*--- CANALS -- CAPILLARY FLOW --  
 CAVITATION -- CHANNELS -- FLOW MEASUREMENT --  
 FLUID POWER -- FREE BOUNDARY --  
 HYDRAULIC JUMP -- HYDRAULIC STRUCTURES --  
 PIPE FLOW -- SEEPAGE -- STREAMS, NATURAL --  
 SUBMERGED BODIES -- VALVES AND GATES --  
 WATER HAMMER

## HYDRAULIC STRUCTURES

3200 4925 8025 8026 9173 9972

## BREAKWATER

2001 2002

## CONDUITS

5452 9625

## ENERGY DISSIPATORS

5452 5456 7837 8831

## RESERVOIRS

716 717 5840 8843

## SPILLWAYS

1166 2836 5456 8826 8831 9633

## TRANSITION ELEMENTS

394

## WEIRS

1161 1166 3676 8038 8828

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## HYDRAULIC STRUCTURES \*CONTINUED\*

\*SEE ALSO\*--- DAMS -- DOCKS -- GRAVITY WAVES IN LIQUIDS, BREAKWATER -- PIPES -- VALVES AND GATES

## HYDRODYNAMIC STABILITY

2168 3743 4141 4614 4615 5560 6400 6754 8113 8858  
8869 8870 8871 8872 8873 8876 8941 9646 9647 9648  
9820

\*SEE ALSO\*--- BOUNDARY LAYER, STABILITY -- FLOW, INCOMPRESSIBLE, STABILITY

## HYDROELASTICITY

739 741 3223 5755 6719 6720 9736 10000

STEADY STATE  
1630

\*SEE ALSO\*--- OSCILLATIONS IN FLUID

HYDROELECTRIC POWER PLANT--- \*SEE\* POWER PLANTS, HYDROELECTRIC

## HYDROFOILS

739 741 1564 2429 2487 3224 4083 4084 6720 8377  
9194 10000

CRAFT  
1565

FLUTTER  
739 3223 5758 8124

\*SEE ALSO\*--- CAVITATION, HYDROFOILS -- GROUND EFFECT MACHINES -- STOL -- VTOL

## HYDROGEN

3897 9024

## HYDROGEN EMBRITTLEMENT

1100 4385

## HYDROLOGY

716 723 1556 6452 6688 6689 7376 8025 9170 9172

FLOOD ROUTING  
9173

GROUNDWATER  
3203 4050 4053 4344 6454 6684 6685 7876 8347 9630  
9972

RAINFALL  
6712 9171 9185 9970

RUNOFF  
3199 3202 4925 9171 9970

SOIL AND WATER CONSERVATION  
717 9971

\*SEE ALSO\*--- METEOROLOGY -- OCEANOGRAPHY -- SEEPAGE -- SNOW -- WELLS

HYDROPLANE--- \*SEE\* SEAPLANES AND FLYING BOATS

HYPERSONIC FLOW--- \*SEE\* FLOW, COMPRESSIBLE, HYPERSONIC

## HYSTERESIS EFFECTS

141 142 900 2605 3375 3376 4443 5111 7725 7734

\*SEE ALSO\*--- MATERIAL TEST TECHNIQUES, HYSTERESIS

## ICE

727 735 737 1538 2199 2424 2841 4870 6692 7570  
9986

## IGNITION

7458 8231 8233 9834

CATALYZED  
2286

DETONATIVE  
8230

FLUID PROPELLANTS  
6518

SELF  
8232

SOLID PROPELLANTS  
2286 9833

\*SEE ALSO\*--- ENGINES, SPARK IGNITION -- PROPELLANTS, IGNITION SENSITIVITY

## IMPACT

217 370 1016 1018 1040 1823 2165 2704 3498 6187  
6438 7001 8837 9488

## BEAMS, LATERAL

232 4293 4294 7848 8742

## BEAMS, LONGITUDINAL

1049 1050 3500 4325 5257 5284 6989 7000 7030 7855  
7862

CABLES AND STRINGS  
1017

## EXPERIMENTAL

220 232 238 1868 1878 1881 1882 1884 2733 2734  
3500 4293 4294 4312 5257 5284 6116 7855 9126

## HYPERVELOCITY

1048 1050 2754 3500 4334 4335 5283 5284 7002 9491  
9492 9493

## PENETRATION

1048 1049 1050 1882 1889 2730 3500 4334 4335 7002  
9491 9492 9493

## PLATES

2730 2731 2733 4334 6117 9491

## SHELLS

1023 1038 1864

SHIP HULLS  
6438

## STRUCTURES

1002 1883 7863

TESTING EQUIPMENT  
318 9127

## TESTS OF MATERIALS

1114 4443 4444 5374 7938 7939 8724 8742 9127 9561

## VEHICLES

1727 1967 8794

WATER  
5495

\*SEE ALSO\*--- BALLISTICS, TERMINAL -- FORMING, EXPLOSIVE -- SHOCK WAVES IN SOLIDS

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

# IMPEDANCE METHODS

4866

\*SEE ALSO--- VIBRATION, IMPEDANCE METHODS

# IMPINGEMENT OF DROPS

7357 8255 9042

# IMPLOSION

2107 4009 4888

# IMPULSE

76

# INCOMPRESSIBLE FLOW--- \*SEE\* FLOW, INCOMPRESSIBLE

# INERTIAL GUIDANCE--- \*SEE\* GUIDANCE SYSTEMS, INERTIAL

# INFLAMMABILITY--- \*SEE\* COMBUSTION, INFLAMMABILITY

# INFLATABLE STRUCTURES--- \*SEE\* STRUCTURES, INFLATABLE

# INFLUENCE LINES

9588

# INFORMATION THEORY

1534 1639 2519 2708 4155 4918 8172 8811 9238

\*SEE ALSO--- PROBABILITY THEORY

# INITIAL-VALUE PROBLEMS

1555 4070

\*SEE ALSO--- DIFFERENTIAL EQUATIONS, ORDINARY,  
INITIAL VALUE PROBLEMS -- DIFFERENTIAL EQUATIONS,  
PARTIAL, INITIAL VALUE PROBLEMS

# INJECTION

## FLUID

1174 2890

# INJECTOR

2888 2889

# INLETS

1212 2891 3469 4583 4585 6381 7256 8109 8110 9657  
9669

# INSTRUMENT ENGINEERING

714 3335 3579 3819 4930 5027 5029 5620 5849 5857  
6451 6452 6716 7372 7585 7838 8965 8966 9187 9556  
9750

## ACOUSTICAL

3144 3146 4382 7542 7543 9140 9141 9142 9932 9933  
9936 9937 9940

## CALIBRATION

3572 6221 6648 6650 7080 7085 9546

## ELECTRICAL

1551 1558 9355 5618 6813 6985 7081 7373 8164 8963  
9545 9547 9548

## ELECTRONIC

1591 1592 1909 2046 3239 4952 6696 8357 9186

## HYDRAULIC

2072 7376 8163 8165

## MECHANICAL

3505 5028 5843 6136 6156 8804

## OPTICAL

3210 4067 4075 6176

\*SEE ALSO--- TRANSDUCERS AND GAGES

# INSULATING MATERIALS

554 9941

# INTEGRAL EQUATIONS

9 10 11 769 770 771 772 872 883 1344  
1621 1694 1728 2109 2466 2585 3271 3369 3436 4606  
4739 4994 5472 5504 5677 5891 5899 5900 5999 6857  
6858 6859 7625 7634 7641 8440 9220 9223 9229 9230  
9255 9350 9632 9633 9787

\*SEE ALSO--- BOUNDARY LAYER, INTEGRAL METHODS

# INTEGRAL TRANSFORMS--- \*SEE\* OPERATIONAL METHODS

# INTEGRATION--- \*SEE\* NUMERICAL ANALYSIS, INTEGRATION

# INTEGRO-DIFFERENTIAL EQUATIONS

2099 2468 3280 3285 3286 3287 8424 8440

\*SEE ALSO--- BOUNDARY LAYER, INTEGRAL METHODS

# INTERFACE PHENOMENA

2060 3140 3141 5852 6360 6515 6710 6711 7457 9012

## FLUID BOUNDARIES

2941 4596 7341

## GAS-SOLID

3791 9941

## JET BOUNDARIES

1215 4580 5530 6356 7252 7283 8885 8886

## LIQUID-LIQUID

8941

## LIQUID-SOLID

490 4913 8647

# INTERFERENCE AND COUPLING--- \*SEE\* AERODYNAMIC INTERFERENCE

# INTERFERENCE FITS

3634 4429 8005 9538

# INTERNAL COMBUSTION ENGINES--- \*SEE\* ENGINES

# INTERNAL FRICTION--- \*SEE\* DAMPING CAPACITY OF MATERIALS

# INTERPLANETARY PROBES

625 1466 2353 3109 3991 5766 5767 7522 7523 8299  
8308 9117 9917

# CIRCUMNAVIGATION

4854

# PLANETARY LANDINGS

8292

# INTERPOLATION--- \*SEE\* NUMERICAL ANALYSIS, INTERPOLATION

# INVARIANT IMBEDDING--- \*SEE\* OPTIMAL AUTOMATIC CONTROL, INVARIANT IMBEDDING AND QUASILINEARIZATION

# ION

## FLOW

1727 2114

# IONIZATION

3708 4594 4932 4933 4941 5517 5521 5522 5524 6578  
7249 9661

# IONIZER

3818 9712

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

IRON  
890 1749 2612 3536 3582 7168 7893

IRREVERSIBLE THERMODYNAMICS--- \*SEE\* THERMODYNAMICS,  
IRREVERSIBLE

IRRIGATION  
8025 8029

HYDRAULICS  
1274 6309 8033

STRUCTURES  
8029

\*SEE ALSO\*--- CHANNELS, OPEN, FLOW

ITERATION  
331 7728

## J

JET ENGINES  
519 1189 1190 3770 4788 5792 6630 7476 8920 9283  
9710

TURBOFAN  
7477

TURBOJET  
2081 5714 5715 5725 6532 6533 6542 7474 7669

TURBOPROP  
584

\*SEE ALSO\*--- COMBUSTORS

JET FLAPS  
1257 3978 3979 4083 4580 4637 7358 8928

JET PROPULSION  
3052

JET PUMPS  
403 8158 8959 9732

JETS  
444 467 1215 1216 2865 2890 2911 3695 4605 7217  
7676 8061 9801

COANDA EFFECT  
1248

COMPRESSIBLE FLOW  
442 588 1189 2089 3757 7283 7428 9032

COMPRESSIBLE FLOW, INJECTORS  
1190 5528

COMPRESSIBLE FLOW, NOZZLES  
4594 4596 4600 5525 5530

IMPINGEMENT  
445 2223 2362 3891 5494 5529 6360 7185 7194 7252  
8867 9796

INCOMPRESSIBLE FLOW  
495 615 1170 2082 2853 2863 5491 7194 8224 8914

INCOMPRESSIBLE FLOW, HYDRAULIC  
2056

INCOMPRESSIBLE FLOW, INJECTORS  
1174 1175 3686

INCOMPRESSIBLE FLOW, LAMINAR  
3685 4525 4571 6335 6372 7215 8017 8048

JETS \*CONTINUED\*

INCOMPRESSIBLE FLOW, NOZZLES  
410 1172 1963 2260

INCOMPRESSIBLE FLOW, OSCILLATIONS  
6334 8137

INCOMPRESSIBLE FLOW, SWIRLING  
8849

INCOMPRESSIBLE FLOW, TURBULENT  
1188 1241 2080 3691 4572 4624 5494 5572 5573 5575  
5576 6372 7216 7220 7295 7314 7315 8049 8849 8865  
9694 9801

PLASMA  
613 1302 1443 3835 4827 5701 5739 7487 9086 9087  
9089 9865 9880

RADIATION  
5678 9817

SOUND GENERATION  
1476 3119 3120 4014 4623 4624 4877 5792 7537 8310  
9129

WALL  
5699 8049 8885 9692 9697 9796

\*SEE ALSO\*--- ARCS, JETS -- FLOW MEASUREMENT,  
ORIFICES -- MIXING, JETS -- NOZZLES

JET STREAMS--- \*SEE\* METEOROLOGY, JET STREAMS

JOINTS AND JOINING PROCESSES  
345 381 1148 2037 3661 5441 5442 5443 5446 5447  
5450 5542 5543 6275 7166 7836 7886 8007 8012 8814  
9619

BOLTED  
2034 3650 6005 6203 7164 7165 8005 8006 8812 9620  
9621

BRAZED AND SOLDERED  
8816

DIFFUSION BONDING  
3133

GLUED  
378 379 380 2596 3659 3660 4420 7169 7170 8011  
8818 9624

INSPECTION  
2037

PINNED  
874 9538

RIVETED  
8005

SCREWED  
382 752 2009 7163

TESTING  
2596

THREADED  
1932 3651 5444 8813

TIMBER CONNECTORS  
6005 9620

WELDED  
1106 1144 1145 1146 1147 1966 2750 3654 3655 3657  
3658 4406 5322 5327 5334 5445 7167 8008 8009 8815  
9622 9623

\*SEE ALSO\*--- ADHESIVES -- FASTENERS -- FATIGUE,  
JOINTS

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## K

KILNS--- \*SEE\* FURNACES

## KINEMATICS

76 77 369 371 372 377 1691 2024 2025 2027  
3636 5438 6274 6275 7989 8803 8810 9313 9618

## ACCELERATION

1142 2031 2032 4203 8494 8809 9614

## HUMAN BODY

1727 8394 8408

## LINKAGES

368 376 1133 1136 1137 1138 1139 1140 1141 1142  
1143 2026 2027 2028 2029 2031 2032 2823 3633 3641  
3643 3646 3647 4515 4517 4518 4519 5424 5439 5436  
5437 5439 6276 6293 7158 7159 7160 7161 8000 8001  
8002 8003 8798 8805 8808 9606 9614

## MOBILITY

1136 1142 2028 8004 8394

## RIGID BODY

367 368 829 1689 1690 2557 2823 7160 8495

## SYNTHESIS

367 375 1133 1139 2031 3632 3633 3634 3639 3640  
3642 4521 5424 5430 5436 8797 8798 9606

## VELOCITY

2032 6293 9614

\*SEE ALSO--- BIOMECHANICS, LOCOMOTION -- GEARS,  
KINEMATICS

## KINETIC THEORY

1219 2108 3721 3841 4588 4697 5532 5688 6470 7264  
7265 7266 7269 7274 7275 7276 7383 8074

## COLLISION MODELS

525 2110

## GASES

448 449 525 2960 3842 6469 7388 8082 8175 8212  
8973 8974 8976 8977 9775 9939

## IONIZED GASES

1427 5742 5743 6576 6577 9075

## LIQUIDS

6464

## PLASMAS

602 607 1423 1432 1433 1435 2319 3082 3956 3957  
4794 4813 6561 6970 8267 8273 8274 9076 9874 9875  
9876 9877

## RELATIVISTIC

6575

\*SEE ALSO--- RAREFIED GASES

## L

LAMINAR FLAME--- \*SEE\* FLAME, LAMINAR

## LAMINAR FLOW

5480 6333

## COMPRESSIBLE

5511

## INCOMPRESSIBLE

2052 2065 2072 2858 2862 6330 7208 7213 8023 8864

LAMINAR FLOW \*CONTINUED\*  
INCOMPRESSIBLE \*CONTINUED\*  
8943 9641

## STABILITY

419 2040 2067 2075 2084 2867 2869 4525 4564 4574  
5477 7215 7224 7227 8041 8858 9646 9647\*SEE ALSO--- CAPILLARY FLOW -- FLOW,  
INCOMPRESSIBLE, STABILITY

## LAMINATES

1069 1745 9270

\*SEE ALSO--- COMPOSITE MATERIALS

## LANDING AND TAKEOFF

2341 2929 5591 5592 7330 8682

## AERODYNAMIC ASPECTS

7329 9715

## STRUCTURAL ASPECTS

7502

## LANDING GEARS

2339 7501 8682

LANDSLIDES--- \*SEE\* SOIL MECHANICS

LAPPING--- \*SEE\* GRINDING

## LASERS

223 239 1076 1298 1309 1868 2036 3037 3708 4298  
4818 4858 4890 5523 5617 5620 6218 6220 6628 6984  
9088 9752

\*SEE ALSO--- HOLOGRAPHY

## LATENT HEAT

## SUBLIMATION

6476

## LEAD

138 3521 4377 7887 9517

## LEARNING SYSTEMS

809 821 5053 5962 7691 8486 9312

## AUTOMATA

75 810 1642 1666 1687 4182 5004 5052 5961 7692  
8487 8488 9267

## CODING

804

## CONVERGENCE

2546

## ON LINE METHODS

5053

## SELF ORGANIZING SYSTEMS

5959 7690 9284

\*SEE ALSO--- PATTERN RECOGNITION

LIFT AND DRAG--- \*SEE\* DRAG AND LIFT

## LIMIT DESIGN AND ANALYSIS

876 1997 6862 6863 8785 8786 8787 9569 9570 9571  
9573 9574 9575

## BEAMS

1756

## PLATES

1905 9357 9514

## PRESSURE VESSELS

2607

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## LIMIT DESIGN AND ANALYSIS \*CONTINUED\*

SHELLS  
129 2607 9398

\*SEE ALSO\*--- REINFORCED CONCRETE, DESIGN, LIMIT --  
STRUCTURES, DESIGN, LIMIT

## LINEAR AND NONLINEAR PROGRAMMING

20 817 1685 1688 2483 2527 4189 5382 5384 5910  
5914 6002 6801 7509 8432 8438 8475 8481 8483 8762  
9304

\*SEE ALSO\*--- DYNAMIC PROGRAMMING

## LINKAGES--- \*SEE\* KINEMATICS, LINKAGES

## LIQUID FILM

2070 3019 3862 3884 5605 5689 6434 7444 7444 7446  
7447 7452 8047 8217 8862 9825

## COOLING

3882 4569  
MAY FEATURE ARTICLE

## FLOW

415 1178 4543 5475 5602 6324 7197 7213 7336

\*SEE ALSO\*--- WAVES, LIQUID FILMS

## LIQUID METALS

315 553 1099 1940 2210 2757 8257 8978 8983 9352  
9768

## LIQUID SLOSHING

768 1269 1276 2165 3793 4654 4655 5609 7346 7350  
7351 8933 9728 9731 9736 9738

## LOADS

6260 7136 7149 7977 8737 8740

## BLAST

1016

## EXPLOSIVE

1016

## SEISMIC

7150

## WIND

4499 5762 7984

\*SEE ALSO\*--- AIRPLANE, DYNAMIC LOADS -- COLUMNS,  
ECCENTRICALLY LOADED -- FATIGUE, RANDOM LOADING

## LOCOMOTIVES

4963 5434 9782

\*SEE ALSO\*--- RAILROADS, LOCOMOTIVES -- VEHICLES,  
LAND

## LOW TEMPERATURE PROPERTIES OF MATERIALS

1749 1939 2438 4968 5123 5322 6874

## LUBRICANTS

3226 4104 5713 7586 8384

## DRY FILM

6721 10005

## GAS

1577 2439 2440 3237 4105 4106 4973 5875 6728 6730  
6731 7596 7598 7599 8393 10008 10014

## LIQUID

2438 3228 3533 4088 4099 4100 4102 4966 4974 5867  
5870 5871 5873 5874 5876 6729 7588 7591 7592 7593  
7594 7595 7597 7600 7601 8388 8388 8389 8390 8392  
9197 9201 9203 9204 10007 10009 10010 10011 10012  
10013

## LUBRICANTS \*CONTINUED\*

## SOLID

1567 4093 4099 6732 9196 9198 9205 9208

## LUBRICATION

753 3226 4104 5870 7007

## BOUNDARY

4088 4095 4096 4099 4102 4966 5867 6722 7586 7591  
7594 8391 9197 9201 10007

## DRY FILM

6721 10005

## ELASTO-HYDRODYNAMIC

746 748 2438 2441 4100 6725 7600 8388 10010

## HYDRODYNAMIC

1574 1575 1576 2437 2439 2442 3235 4101 4103 4105  
4106 4107 4110 4971 4972 4973 4974 5865 5871 5872  
5874 6728 6729 6730 6731 6733 6734 7201 7593 7595  
7599 8389 8390 8392 8393 10008 10009 10011 10012

## HYDROSTATIC

747 2440 3237 6728 7596 7597 7598 9203 9204

## SOLID

1567 3227 4093 4507 6732 9198 9206

\*SEE ALSO\*--- BEARINGS -- FRICTION -- GEARS --  
TURBULENCE, FRICTION REDUCING ADDITIVES -- WEAR

## LUNAR MISSIONS

58 4002

## APOLLO MISSION

4843 4845 4850

## LUNAR LANDING

71 7510

## LUNAR RETURN

68

## LUNAR SURFACE

1465 4001 6162

M

## MACHINABILITY

1074 5423 7051 7886

## MACHINE DESIGN

369 370 371 372 373 374 375 376 377 1088  
1133 1134 1135 1139 1141 1935 2020 2025 2027 2028  
2030 2492 2799 2817 2818 2819 2820 2821 2823 2824  
2825 2826 2827 3294 3535 3631 3633 3634 3635 3636  
3637 3638 3639 3640 3641 3642 3644 3645 3647 3648  
3649 3657 4378 4428 4429 4430 4504 4505 4506 4507  
4508 4509 4510 4511 4512 4513 4514 4515 4516 4517  
4519 4520 4523 4524 5311 5423 5424 5425 5426 5427  
5428 5429 5430 5431 5432 5433 5434 5435 5436 5437  
5438 5439 6171 6175 6274 6275 6276 6277 6278 6282  
6283 6284 6285 6286 6287 6288 6289 6290 6291 6292  
7050 7051 7151 7153 7154 7155 7156 7157 7161 7162  
7988 7989 7990 7991 7992 7993 7994 7995 7996 7997  
7998 7999 8000 8001 8002 8003 8797 8799 8800 8801  
8802 8803 8804 8805 8806 8807 8809 8810 8811 9607  
9608 9609 9611 9612 9613 9615 9617 9618

\*SEE ALSO\*--- BELTS -- CAMS -- CHAINS --  
CLUTCHES -- COUPLINGS -- KINEMATICS, LINKAGES --  
SCREWS -- SEALS -- SPLINES -- SPRINGS

## MACHINE TOOLS--- \*SEE\* TOOLS

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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# MAGNESIUM AND MAGNESIUM ALLOYS

138 1070 1739 4396 4423 5310

## MAGNETO-FLUID-DYNAMICS

1232 1578 5732 5741 6552 6733 6734

### AERODYNAMIC APPLICATIONS

3963 6730 9881

### CHANNEL FLOWS, COMPRESSIBLE

588 2302 2316 3057 3059 3061 3079 4819 5733 5737  
5740 6544 6546 6547 6560 6579 7488 8264 9058

### CHANNEL FLOWS, INCOMPRESSIBLE

586 590 591 592 593 594 615 1419 2300 2301  
3054 3055 3056 3058 3062 3063 3065 3066 3923 3924  
3925 3926 3927 3928 3929 4790 4792 4802 4804 4806  
4807 5734 5738 5753 6543 7481 7483 9054 9055 9056  
9057 9066 9068 9862

### CHARGED PARTICLE, DYNAMICS

611 1434 2306 3080 3941 4204 6584

### DIAGNOSTICS

1444 1445 1446 1447 1448 1449 2312 2313 2317 3947  
3948 3964 4833 4835 4836 4837 4838 5754 6594 7495  
7496 7497 9062 9066 9089 9891

### DIFFUSION IN PLASMAS

599 610 1428 1440 3940 3953 4815 7489 9871

### ENERGY CONVERSION

612 1420 1421 1441 1442 2328 2329 3064 3092 3093  
3094 3965 3966 3967 3968 3969 3970 4791 4830 4831  
5752 6591 7493 7494 8279 8280 9001 9083 9084 9087  
9884 9885 9886 9887

### EXPERIMENTAL METHODS

609 614 616 617 1429 1438 2315 3076 3088 3095  
3952 3958 4800 4820 4824 4827 4834 6559 6590 6593  
7485 8281 9073 9078 9864 9868 9889

### HEAT TRANSFER

1431 3091 6557 6573 6574 7490 8271 9072 9802 9858

### INTERACTION OF PLASMAS WITH EXTERNAL MAG FIELDS

589 1437 3971 4816 4821 4822 5739 6581 6592 7482  
8257 8266 8269

### OBSTACLES, FLOW AROUND

587 608 1425 2327 3060 3075 3081 4805 4817 4828  
4829 5750 5751 6551 6558 6568 8261 8262 8263 8272  
9065 9067 9866 9867 9882

### ROTATING FLOWS

603 604 605 3084 3937 3951 3960 4204 4803 8260

### SHOCKS IN PLASMAS

596 2320 2321 2326 3069 3074 3090 3933 4795 4796  
4797 4799 4826 5745 5746 5749 6556 6585 6586 6589  
7478 7479 9061 9860

### SHOCKS IN PLASMAS, COLLISION FREE

2323 2324 3073 3939 3962 8278 9060

### SHOCKS IN PLASMAS, NORMAL

1434 2322 3067 3086 3935 6391 9080

### SHOCK TUBES, ELECTROMAGNETIC

597 3070 3708 3949 3950 4825 5747 6587 6588 7491

### STABILITY, CONTINUUM THEORY

1430 3077 3085 3938 3942 3943 3944 3946 4811 4812  
4814 6545 6563 6567 6569 7480 7484 8270 8277 9069  
9071 9081 9878

### STABILITY, KINETIC THEORY

2304 2305 2307 2308 2309 2310 2311 3078 3945 4801  
4808 4809 4810 6565 9074

### TURBULENCE, CONTINUUM APPROACH

591 600 601 614 1418 3934 5735 5736 9865

## MAGNETO-FLUID-DYNAMICS \*CONTINUED\*

### TURBULENCE, KINETIC APPROACH

2314 6564 8259

### WAVES, ELECTROMAGNETIC

606 1422 1424 1426 1436 1439 2318 3071 3087 3278  
3981 6548 8258 8263 9079 9863 9869 9870

### WAVES, INTERACTION WITH BOUNDARIES

595 719 3930 3931 9879

### WAVES, MAGNETO-FLUID-DYNAMIC

1 598 2303 3068 3072 3083 3089 3932 3934 3954  
3955 4793 4798 4800 4823 4992 5898 6549 6550 6553  
6554 6555 9059 9063 9857 9859 9861 9868

\*SEE ALSO--- ARCS -- ENERGY CONVERSION -- FLOW,  
COMPRESSIBLE, MAGNETO-FLUID-DYNAMIC -- FLOW  
MEASUREMENT, MAGNETO-FLUID-DYNAMIC -- PLASMA  
(NON-MEDICAL) -- PUMPS, MAGNETO-FLUID-DYNAMIC --  
SPACE PROPULSION, PLASMA

## MAGNETO-HYDRO-DYNAMICS--- \*SEE\*

### MAGNETO-FLUID-DYNAMICS

### MAGNETOSTRICTION

9141

\*SEE ALSO--- VIBRATION; MAGNETOSTRICTION

### MAN-MACHINE SYSTEMS

1597 4112 4131 5024 6780 7610 7655 8410 8411

\*SEE ALSO--- BIOCONTROL -- HUMAN ENGINEERING

### MANOMETERS

3814 8164

### MARINE ENGINEERING

2001 2002 3621 5379 6749

### EFFECT OF WAVES ON BUOYS

4653 7339 8145

### FORCES ON BUOYS

2945

### MOORING

2945 5861

### OSCILLATIONS OF BUOYS

9729

### SHIP DESIGN

1559 1565 6717 6718 8378 8483 8796 9603 9993 9995

### SHIP GUIDANCE

2427 3225 4079

### SHIP HYDRODYNAMICS

1560 2429 3220 3224 4081 4953 4956 4957 5862 5863  
6717 6718 8373 8376 9188 9190 9191 9192 9194 9457  
9992 9994

### SHIP HULLS

737 6717 7148

### SHIP MODEL EXPERIMENTS

735 736 1562 1563 2426 4078 4081 4960 4961 5858  
5860 8374 8379 9989 9990 9993

### SHIP MOTION

1566 2426 3220 3224 4956 4961 5862 6091 6815 8376  
9191 9989 9990 9996

### SHIP MOTION, SEAS

3464 4958 8377

### SHIP MOTIONS, INLAND WATERWAYS

3225 5860 8375

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## MARINE ENGINEERING \*CONTINUED\*

SHIP PROPULSION  
1285 1562 1563 5863 5864SHIP RESISTANCE  
736 2428 3218 3219 4077 4078 4934 4935 4936 4962  
5858 5859 5863 9189 9190 9989 9990 9991 9992SHIP BLAMMING  
738 1561 3221 9997SHIP STABILITY  
4079 4957 9192 9996SHIP TESTS  
4086 8374 8377SHIP WAVES  
1560 2429 3218 3219 4077 4935 4962 5859 6720 8373  
9188 9189STABILITY OF BUOYS  
2945 2946TOWED BODY DYNAMICS  
2842 4080 4086TOWING CABLE DYNAMICS  
2842\*SEE ALSO\*--- HYDROELASTICITY -- HYDROFOILS --  
IMPACT, SHIP HULLS -- PERFORMANCE, SHIPS --  
PROPELLERS, MARINE -- SWAFTS -- STRUCTURES,  
SHIP -- SUBMERGED BODIES -- VEHICLES,  
AMPHIBIOUS -- VEHICLES, SEA -- VIBRATION, SHIP  
HULLS -- WAVES, EFFECT ON FLOATING BODIES

## MARINE PROPELLERS--- \*SEE\* PROPELLERS, MARINE

## MASS TRANSFER

401 1367 1368 1369 1386 1388 1389 2226 2243 2262  
2282 3020 3856 3878 3891 3892 3901 4724 4756 5507  
5682 5694 5697 6510 6515 7288 7340 7457 8045 8191  
8242 8861 8940 9024

## DIFFUSION

1366 1385 2405 3017 3019 4748 5695 5696 7319 7453  
8018 8085 8188 8204 9026

## EVAPORATION

565 566 1392 1531 2111 2283 3879 3884 4754 5695  
5711 7454 7455 9033

## FORCED CONVECTION

565 567 568 1372 2120 2239 3017 3023 3024 3900  
4567 4749 4754 4755 4757 4759 5695 6511 6512 6513  
6514 7453 8018 9025 9028 9029 9030 9643 9826

## FREE CONVECTION

2239 2281 2988 2989 4748 9798

## INJECTION

1390 1391 2093 2130 3022 3896 4733 6516 7453 9020  
9033

## TRANSPIRATION OR FILM COOLING

3882 3885 3898 4758 4760 5699 5700 7456 8857 9031  
9032\*SEE ALSO\*--- ABLATION -- DIFFUSION -- DRYING --  
HEAT TRANSFER, EVAPORATION -- METEOROLOGY,  
EVAPORATION -- MIXING -- LIQUID FILM, COOLING

## MATERIAL TEST TECHNIQUES

1015 1016 1084 1089 1093 1111 1114 1726 1928 1929  
1930 2037 2754 2761 3540 3573 4417 4424 4436 4441  
4455 4460 5359 5360 5361 5363 6223 6235 6236 7058  
7070 7087 7089 7092 7093 7094 7100 7169 7901 7910  
7928 7930 7936 7941 7942 7950 8012 8749 8764 9343  
9536 9562 9563

## MATERIAL TEST TECHNIQUES \*CONTINUED\*

## BENDING

921 922 1109 5318 6222 7088 7940 9559

## BIAXIAL

317 5364 6227 6228 7091 7934

## COMPRESSION

316 5367 7086 7933

## DYNAMIC

282 312 1112 1881 1882 1927 5242 5374 6233 7867  
7938 7948 8334 8743

## FRACTURE TOUGHNESS

1083 1881 1917 6232 6237 7943 7944 7945 8744 8745  
9561

## HARDNESS

134 1882 1968 5368 5369 5370 6239 6240 6241 7097  
7098 7946 7947 8746 8747

## HIGH PRESSURE

1098

## HIGH STRAIN RATE

313 1881 5145 7867 9952

## HIGH TEMPERATURE

315 681 691 692 694 695 696 697 2396 2443  
3163 4037 4445 4901 4906 4907 4908 4909 5242 5831  
5832 7867 7939 9133 9155 9949 9950 9951

## HIGH VACUUM

2152 2443

## HYSTERESIS

900 5365 5373

## LOW TEMPERATURE

698 4900 4906 4910 7558 7559 8335 9952

## MACHINES

1113 4454 6230 6231 7951 9154

## NOTCH

1746 5323 6238 8742 8745

## SHEAR

1064

## TENSION

889 1746 3574 5115 6229 6239 7095 9557 9558

## TORSION

6224 6225 6226 7090

## TRIAXIAL

1064 1110 1725 5362

\*SEE ALSO\*--- CORROSION -- CREEP -- DAMPING  
CAPACITY OF MATERIALS -- ELASTIC CONSTANTS OF  
MATERIALS -- FATIGUE, EXPERIMENTAL METHODS --  
FRACTURE -- IMPACT, TESTS OF MATERIALS --  
METALLOGRAPHY -- NONDESTRUCTIVE TEST TECHNIQUES  
AND INSPECTION -- TESTING -- ULTRASONICS,  
TESTING -- X-RAY TECHNIQUES

## MATERIALS, PROPERTIES--- \*SEE\* UNDER MODIFIERS

## MATHEMATICAL METHODS--- \*SEE\* UNDER MODIFIERS

## MATHEMATICAL PROGRAMMING

2532 5942 6807 8450

\*SEE ALSO\*--- DYNAMIC PROGRAMMING -- LINEAR AND  
NONLINEAR PROGRAMMING -- OPTIMAL AUTOMATIC CONTROL

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## MATRIX METHODS

2 154 172 323 384 761 762 979 1539 1603  
1717 1761 1775 1805 2460 3267 3386 3407 4138 4139  
4140 4274 5379 5911 6771 6918 7637 7747 7772 7789  
8004 8007 8414 8458 9219 9261 9270 9385

## DETERMINANTS

2455

## EIGENVALUES

2 26 619 832 978 1727 2455 2479 3268 6751  
6935 7616 7642 8413 8442 8443 9261

## INVERSION

4136 4138 4139 6774 9258

## LINEAR EQUATIONS

20 1637 4160 7640 7653

\*SEE ALSO\*--- LINEAR AND NONLINEAR PROGRAMMING --  
NUMERICAL ANALYSIS -- STRUCTURES, MATRIX  
METHODS -- VECTOR AND TENSOR METHODS

MEASUREMENT METHODS--- \*SEE\* UNDER MODIFIER

MECHANISMS--- \*SEE\* MACHINE DESIGN

## MEMBRANES

1727 1878 3284 3498 3973 6079 9227 9248

## PERMEABLE

3178

\*SEE ALSO\*--- VIBRATION, MEMBRANE

## MENISCUS

3784 7341

METAL FORMING--- \*SEE\* FORMING, METAL

## METALLOGRAPHY

218 3382 5447

## METALLURGY

1356 1928 3471 4446 5446 5447 5448 5449 8008 8010  
8727 9522 9537

## POWDER

5310 7893

## METEOROLOGY

5451 7419

## APPLIED

1549 6712 9170 9177 9184 9971

## ATMOSPHERE

33 1522 2994 4067

## CLIMATOLOGY

726 728 4950 6692 6710 9186

## CLOUD PHYSICS

727 732 733 1357 1551 1558 2421 2424 2425 3171  
4942 4946 6326 6329 6716 7585 8369 9185 9187 9984  
9986 9987 9988

## DYNAMICS, CIRCULATION AND VORTICITY

724 1550 4071 6488 6489 6705 7583 9179 9180

## DYNAMICS, EQUATIONS OF MOTION

724 730 1557 4070 4073 4945 4948 5851 5854 6715  
8367 8370 9167 9181 9976 9978

## DYNAMICS, KINEMATICS

4936 4937

## DYNAMICS, NUMERICAL METHODS

725 2419 6488 6489 9969 9986

## DYNAMICS, PERTURBATION THEORY

3211 4068 5853 6703 9181

## METEOROLOGY \*CONTINUED\*

## DYNAMICS, PRESSURE CHANGE MECHANISMS

2422 6709

## EVAPORATION

733

## GENERAL CIRCULATION

1550 4070 7576 9807 9983

## HEAT TRANSFER

731 732 3215 6488 6489 6708 9807 9985

## JET STREAMS

4948 5852 7579 9976

## MEASUREMENTS

734 1548 1551 1553 1554 1558 2418 2420 2425 3213  
3214 3215 3216 3217 4072 4074 4075 4076 4932 4936  
4940 4941 4947 4949 4951 4952 5847 5853 5856 5857  
5908 6714 7581 7584 7585 8365 8366 8372 9180 9182  
9183 9185 9187 9977 9987 9988

## MICROMETEOROLOGY

730 734 1546 1557 2418 2419 2420 4069 4072 4934  
4938 4943 4944 5842 5846 5852 5856 5857 6704 6710  
6711 6712 6713 6714 6715 6716 7568 7571 7576 7580  
8368 9163 9182 9184 9973 9977 9978 9980 9985

## PHYSICAL

1552 2423 4935 4940 4943 4952 5847 5855 6707 6709  
6713 9183

## PLANETARY ATMOSPHERES

731 2423 5851 5853 5854

## ROCKETS AND SATELLITES

3216 4939 4947 5775 7584 8365 8372 9983

## SYNOPTIC, ANALYSIS AND FORECASTING

726 1555 2422 4939 4949 4950 6705 7579 8369 8370  
9167 9179 9984

## THERMODYNAMICS

6708

## TURBULENCE

1237 1546 1548 1549 3212 4067 4068 4069 4075 4076  
4934 4938 4942 4944 4951 5846 6704 7571 7580 8366  
8368 9807 9973 9980

## UPPER ATMOSPHERE

721 725 728 1552 1553 1554 3211 3212 3213 3214  
3216 3217 4071 4073 4074 4932 4933 4937 4941 5775  
6706 7581 8367 8371 9969

## WIND PRESSURE

4066 9591

\*SEE ALSO\*--- ARTIFICIAL SATELLITES, WEATHER  
SATELLITES -- ASTROPHYSICS -- DIFFUSION,  
ATMOSPHERIC -- HYDROLOGY -- OCEANOGRAPHY -- TIDES

METHOD OF CHARACTERISTICS--- \*SEE\* NUMERICAL  
ANALYSIS, CHARACTERISTIC METHODS

## MICROMERITICS

701 702 703 705 706 1513 3166 10003

\*SEE ALSO\*--- AEROSOLS -- BED -- BUBBLE DYNAMICS --  
DROPS -- DUST TRANSPORT -- GRANULAR MEDIA --  
PARTICLES -- POROUS MEDIA -- SEDIMENTATION --  
SEDIMENT TRANSPORT -- SPRAYS

## MILLING

3529 3530 3531 5316 6173 6177 7051 7893 7894 7896

## MINES

1901 1902 3517 4038 4054 4362 4363 4373 6164 7023  
7877 8345

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## MISSILES

633 639

\*SEE ALSO--- GUIDANCE SYSTEMS, MISSILE --  
PERFORMANCE, MISSILE -- ROCKETS --  
SPACE NAVIGATION AND GUIDANCE -- SPACE POWER --  
SPACE PROPULSION -- SPACE VEHICLE DESIGN --  
SPACE VEHICLE STABILIZATION -- TESTING --  
VIBRATION, MISSILES AND ROCKETS

## MIXING

1187 1215 2095 6446 9754

## JETS

428 1241 2080 8914 9032

## LAMINAR

443 1155 4571

## TURBULENT

428 1155 1390 3691 4626 4724 4759 4760 5530 6323

\*SEE ALSO--- MASS TRANSFER

## MIXTURES

450 1181 1528 1530 2278 7394 8138

## GAS

384 1385 2859 2860 3844 3852 4708 5630 7267 7461  
8120 8232 8233 8895 8973 8976 8982 9772 9773 9776  
9777

## LIQUID

1356 2835 2859 2860 4713 9778

## SOLIDS

538 2966 4244

## MODEL STUDIES

28 3631 8025 8289 9048 9442

## COMBUSTION

5712 6528

## FLUID MECHANICS

716 717 720 2414 2418 3206 4581 4582 4928 5851  
6506 6531 6711 7574 7583 8038 8360 8362 9967 9979  
9986

## HEAT TRANSFER

6506 7432 9832

## SOLID MECHANICS

351 1474 1536 1537 1941 1948 1967 2766 2767 2805  
4362 4363 6170 6173 6206 7010 7071 7560 7564 7883  
9832 9967

\*SEE ALSO--- MARINE ENGINEERING, SHIP MODEL  
EXPERIMENTS -- SCALE EFFECT -- STRUCTURES, MODELS

MOIRE METHODS---\*SEE\* OPTICAL TECHNIQUES, MOIRE  
METHODS

MOLDING--- \*SEE\* CASTING

## MOLECULAR BEAMS

4605 7283

## MULTIPHASE FLOW

704 1208 1517 1518 1521 1526 1727 2107 2399 2872  
2876 3020 4045 4914 5519 5527 6362 6667 7244 8085  
8339 8883 9649 9958

\*SEE ALSO--- PIPE FLOW, MULTIPHASE

## N

NAVAL ARCHITECTURE--- \*SEE\* MARINE ENGINEERING

## NAVIGATION

1463 1464 7673 9108 9906

\*SEE ALSO--- MARINE ENGINEERING, SHIP GUIDANCE--  
SPACE NAVIGATION AND GUIDANCE

## NICKEL

276 1147 1747

## NOISE

1481 1482 1483 8311 8315 9131 9526

## ABATEMENT

1479 3119 3125 4869 4872 5792 5794 6623 6630 7529  
8312 9132 9929

## AIRCRAFT

646 647 1479 3123 4015 4872 5792 5793 5796 6630  
7527 7528 7529 7530 9129

## ARCHITECTURAL ASPECTS

3128 3145

## BOUNDARY LAYER

213 1478 2912 5451 9130

## CAVITATION

661 1168 1477 1494 1495 2379 3129 3175

## ENGINES

645 1476 1486 2362 3119 4868 4871 5789 5792 5794  
5795 9929

## GENERATION

642 651 1485 1486 2362 3123 3124 4014 4868 4877  
5789 5795 6418 6629 6630 8310

## MEASUREMENT

651 1477 1478 1479 1484 2361 4015 4016 4030 4171  
4173 4178 6804 7528 8478

## RANDOM

650 775 4870 4873 5932 6981 7687 9280 9309

\*SEE ALSO--- BIOMECHANICS -- BOUNDARY LAYER,  
NOISE -- STATISTICAL CONTROL THEORY, NOISE

## NOMOGRAMS

4934 5891 7636 8249

## NONDESTRUCTIVE TEST TECHNIQUES AND INSPECTION

2015 3507 4456 4457 4458 6242 7949 8332 8749

## FLAW DETECTION

319

## ULTRASONIC

264 1497 1498 1969 1970 1971 7916 9541

\*SEE ALSO--- STRUCTURES, NONDESTRUCTIVE TESTING --  
X-RAY TECHNIQUES

## NONLINEAR--- \*SEE\* UNDER MODIFIER

## NON-NEWTONIAN FLOW

383 385 386 387 389 390 391 1150 1151 1152  
1524 2038 2040 2041 2044 2828 2830 2833 3663 3664  
3666 4525 4529 5541 6297 6298 6299 6300 6303 6495  
7286 8016 8017 8018 8019 8022 8023 8024 8207 8208  
8819 8821 9002 9003 9004

\*SEE ALSO--- FLOW, INCOMPRESSIBLE, NON-NEWTONIAN

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## NOTCH SENSITIVITY

879 889 1746 2601 6190 7060 7063 7073

NOTCH TEST--- \*SEE\* MATERIAL TEST TECHNIQUES, NOTCH

## NOZZLES

421 512 6314

## COMPRESSIBLE FLOW

435 445 450 1214 1217 1219 2091 2104 2105 2076  
2900 3716 3718 3720 3722 4594 5526 5527 5748 6359  
6361 7233 7250 7254 7255 7277 7284 7298 8205 8889  
9667 9670

## INCOMPRESSIBLE FLOW

1172 1228 3732 4631 6313 7253 9682

## STRUCTURAL ANALYSIS

356 357 359 2810 5413 8787

## STRUCTURAL TESTS

2007 3613 8748

\*SEE ALSO\*--- FLOW MEASUREMENT, NOZZLES --  
ROCKETS, NOZZLES -- THRUST, NOZZLE

## NUCLEAR DETONATIONS

4008

## BLAST EFFECTS

3118 9124

## NUCLEAR PROPULSION

3052

\*SEE ALSO\*--- FUELS, NUCLEAR

## NUCLEAR RADIATION

1358 1729 2590 2612 7923

## NUCLEAR REACTORS

585 1416 1729 1842 2006 2213 2257 3053 3868 3921  
4183 4482 4569 4571 4724 5412 5690 6487 7135 7923  
8198 8998 9596 9791 9854 9855 9856\*SEE ALSO\*--- HEAT EXCHANGERS, NUCLEAR REACTORS --  
RADIATION, DAMAGE -- THERMOELASTICITY

## NUMERICAL ANALYSIS

3 1204 1250 3679 3714 4477 5514 5851 5891 5911  
6771 7254 7438 7571 7637 8056 8064 8363 8989 9656

## CHARACTERISTIC METHODS

718 1199 1212 1273 1742 2092 2188 3379 4323 4629  
4631 7724 8061 8141 8924 9476 9671 9672 9860

## CURVE FITTING AND SMOOTHING OF DATA

12 1535 1536 1555 2041 2833 3196 3199 3368 4150  
4162 4999 6000 8359 9581

## DIFFERENTIATION

6750 7613 7645

## FINITE DIFFERENCE METHODS

59 412 424 426 717 720 1201 1333 1557 2022  
2220 2878 3199 3202 3689 4070 4557 4721 4722 5492  
5499 5500 5526 5533 5651 5659 5852 6325 6327 6339  
6488 6704 6715 7203 7235 7422 8058 9167 9628 9629  
9630 9792 9967 9984 9986

## HARMONIC ANALYSIS

731 4061 4939 8355 9163 9174 9180 9614

## INTEGRATION

479 1629 1631 2478 2481 2829 2922 3758 4073 4161  
5845 6406 6750 6775 7563 7613 7634 7638 7645 7646  
8434 8445

## INTERPOLATION

782 2472 2480 4158 5581 5582 9262

## NUMERICAL ANALYSIS \*CONTINUED\*

\*SEE ALSO\*--- DIFFERENCE EQUATIONS -- STRUCTURES,  
FINITE ELEMENT METHODS

## OCEANOGRAPHY

8 406 718 719 720 721 722 723 729 1098  
1540 1541 1542 1543 1544 1545 1547 1556 2361 2378  
2380 2414 2415 2416 2417 2909 2989 3137 3138 3139  
3196 3204 3207 3209 4026 4027 4056 4063 4064 4065  
4066 4728 4870 4873 4923 4926 4927 4928 4929 4930  
4931 4935 5451 5842 5844 5845 5846 5847 5848 5849  
5850 5853 6136 6640 6701 6702 6710 6711 7419 7568  
7571 7572 7573 7574 7575 7576 7577 7578 7868 8359  
8360 8362 8363 8364 8365 8368 9169 9175 9176 9177  
9178 9182 9933 9964 9973 9974 9975 9977 9981\*SEE ALSO\*--- CURRENTS -- GRAVITY WAVES  
IN LIQUIDS, OCEAN -- HYDROLOGY -- METEOROLOGY --  
SEISMOLOGY -- TIDESOCEAN WAVES--- \*SEE\* GRAVITY WAVES IN LIQUIDS,  
OCEAN

OFF-SHORE STRUCTURES--- \*SEE\* STRUCTURES, OFF-SHORE

OPEN CHANNELS--- \*SEE\* CHANNELS

## OPERATIONAL METHODS

1632 1728 2215 2977 3016 4148 4149 4161 4745 4752  
5099 5999 6860 7720 8190 8276 9785 9898\*SEE ALSO\*--- DIFFERENTIAL EQUATIONS, ORDINARY,  
OPERATIONAL METHODS -- DIFFERENTIAL EQUATIONS,  
PARTIAL, OPERATIONAL METHODS

## OPERATIONS RESEARCH

22 779 1626 2469 2474 3292 3295 4154 6768 7651  
8434 8439 8699 9236 9237 9247 9266\*SEE ALSO\*--- DYNAMIC PROGRAMMING -- GAME THEORY --  
LINEAR AND NONLINEAR PROGRAMMING -- QUEUE THEORY

## OPTICAL TECHNIQUES

499 1287 1493 2072 2452 3757 4685 4935 6431 7457  
7582 7930 8168 8219

## FLOW VISUALIZATION

1169 2078 2241 2255 2885 2987 5562 5653 6336 6455  
6506 7322 7430 8053 8165 8824 8855 8997 9691 9753  
9755 9807 9824

## HIGH SPEED PHOTOGRAPHIC

239 1243 7176 8220 8837 9013 9634 9820

## INTERFEROMETRIC

2226 2263 2283 3708 3826 4690 5617 7418 8219 8221  
8824 9089 9544 9549 9552 9747 9752 9890

## LASER DOPPLER VELOCIMETER

1244 2832 6221

## MOIRE METHODS

277 1952 1953 1954 2775 3565 3566 3567 4431 6215  
6216 6220 8738 9442

## OIL FILM PHOTOGRAPHS

9813

## SCHLIEREN

3706 3823 3865 4759 5528 6343 7420 8203 8221 9752  
9813

## SHADOWGRAPHIC

1209 3716 5655 7929

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## OPTICAL TECHNIQUES \*CONTINUED\*

TRACER PHOTOGRAPHY  
4621 6431 9699

\*SEE ALSO\*--- DENSITY MEASUREMENT -- EXPERIMENTAL  
STRESS ANALYSIS, OPTICAL -- HOLOGRAPHY --  
PHOTOELASTICITY -- PHOTOPLASTICITY

## OPTIMAL AUTOMATIC CONTROL

65 73 74 816 1668 1671 2527 2532 2534 3337  
4192 4199 5039 5042 5942 5947 5952 7511 7680 7685  
8300 8457 8473 8475 8477 9267 9294 9298

## BOUNDARY VALUE PROBLEMS

814 5040 5588 5589 7624 9704

## BOUNDED VARIABLES

69 4200 5035 5044 5943 5944 5951 7678 8485 9296  
9302

## CONTROLLABILITY AND OBSERVABILITY

802 1676 1677 2543 4177 5004 5008 5009 5014 5016  
5923 5924 5926 6782

## DIFFERENTIAL GAMES

2531 2536 5041 5046 5920 5948 9299

## DISCRETE AND SAMPLED DATA SYSTEMS

819 1673 2535 4640 5044 5045 6807 8480 9302

## DISTRIBUTED PARAMETER SYSTEMS

796 2537 2538 2539 2542 3342 4190 5048 5049 5955  
7688 8476 9304

## INVARIANT IMBEDDING AND QUASILINEARIZATION

814 5035 6803 7681

## MAXIMUM PRINCIPLE

66 67 68 72 1679 2469 2470 3291 3292 3771  
4194 4195 5041 5050 5945 5949 6409 7331 8307 9236  
9237 9247 9301 9915

## MINIMUM FUEL

68 71 4193 4195

## NONLINEAR PROGRAMMING

5038

## NUMERICAL TECHNIQUES

67 1685 4195 4197 4201 5032 5040 5043 5952 5953  
5958 7624 9300

## PERFORMANCE

61 2528 3340 4201 5954 8478

## REGULATOR PROBLEM

60 811 813 1669 1674 2543 5034 5036 5045 5921  
8482 9295

## SENSITIVITY

61 63 1677 2530 5033 5034 5959 6800 7654

## SINGULAR CONTROL

2529

## STEEPEST DESCENT

4194 5043 6802 6805 7682 7684

## STOCHASTIC

819 1663 1672 3341 4197 5047 5954 7683

## TIME OPTIMAL SYSTEMS

64 1654 1673 1675 3339 4190 4191 4198 5032 6801  
6812

## TIME VARYING SYSTEMS

2529 2533 2927 3338 5003 8485

\*SEE ALSO\*--- AUTOMATIC CONTROL -- CONTROL  
STABILITY -- DYNAMIC PROGRAMMING -- LEARNING  
SYSTEMS -- STATISTICAL CONTROL THEORY --

## OPTIMAL AUTOMATIC CONTROL \*CONTINUED\*

\*SEE ALSO\*--- \*CONTINUED\*

SUBOPTIMAL CONTROL -- TIME DELAY SYSTEMS --  
VARIATIONAL METHODS

## ORBIT MECHANICS

624 3983 7520

## ORBIT DETERMINATION

785 1460 1464 1467 2477 3307 4846 5779 6610 7509  
9108

## ORBIT MODIFICATION

4841

## ORBIT PREDICTION

6608 6618 8304 9106 9904

## ORBIT SELECTION

2068 5491

## TRACKING

1466 9116

## TRAJECTORY OPTIMIZATION

625 628 1462 2344 2345 2349 2927 3099 3100 3102  
3989 4004 4005 4847 5765 5766 5780 5781 6612 6617  
7508 7521 8292 8293 8298 8307 8308 9107 9118 9902  
9915

## TRANSFER ORBITS

72 627 628 2342 2345 3099 3100 3102 3103 3104  
3104 3105 3106 3991 4002 4003 4843 4844 4845 5765  
5781 6617 7508 7523 8292 9118 9902

\*SEE ALSO\*--- RENDEZVOUS

ORIFICES-- \*SEE\* FLOW MEASUREMENT, ORIFICES

## OSCILLATIONS IN FLUIDS

488 489 496 504 1167 1195 2161 2170 2932 2945  
2946 3786 3787 3788 3792 5604 5606 6435 7210 7219  
7261 7335 7345 8055 8133 8142 8144 8862 8933 8948  
8949 9723 9728 9729 9732 9735

## AIRFOIL AND WINGS, COMPRESSIBLE FLOW

2880 7262

## LIQUID IN A TUBE

2180

## VORTEX-INDUCED

3687 6437 8143 8950 8951 9897

\*SEE ALSO\*--- FLUTTER -- UNSTEADY FLOW --  
VIBRATION, FLUID -- WAVES

P

## PANELS

## CURVED

2068

## STIFFENED

3592

\*SEE ALSO\*--- CONCRETE AND MASONRY, PANELS --  
FLUTTER, PANELS -- PLATES

## PARACHUTES

3982 5534 5663 7503

\*SEE ALSO\*--- DECELERATORS, AERODYNAMIC

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## PARTIAL DIFFERENTIAL EQUATIONS--- \*SEE\* DIFFERENTIAL EQUATIONS, PARTIAL

## PARTICLES

701 702 1513 1517 1519 1520 1522 2397 2398 2400  
2403 3168 4048 4911 9834 6663 6667 6672 6673 6676  
6724 8336 8338 8339 8340 9953 9954 9961

## HEAT TRANSFER

554 564 1314 1349 1377 2277 4726 5640 6666

## MEASUREMENTS

699 700 3176 7006 7543

## PHYSICAL PROPERTIES

699 1314 4342 8337 10003

## SHAPE

3165 9838

\*SEE ALSO--- DROPS -- DUST, TRANSPORT --  
DYNAMICS, PARTICLE -- GRANULAR MEDIA -- SPRAYS

## PATTERN RECOGNITION

809 1595 2486 2546 4155 7691 8451 9312

## PAVEMENTS--- \*SEE\* HIGHWAYS AND RUNWAYS

## PENDULUMS--- \*SEE\* VIBRATION, PENDULUMS

## PENETRATION

## PROJECTILE

1889

\*SEE ALSO--- IMPACT, PENETRATION

## PERFORMANCE

## AIRPLANES

2336 2337 2915 3977 9900

## ENGINES

740 4780 5727 6542 7474 7477 9851

## MISSILE

3772 3773 6418 7374

## OPTIMIZATION

634 635 3771

## ROCKET MOTOR

9051

## SHIPS

740 5042

## SPACECRAFT

9117

## VEHICLES

1057 1058 4364 6152 8131

## PERMAFROST

2214 2740 7018

## PERMEABILITY OF SOILS--- \*SEE\* SOIL MECHANICS, PERMEABILITY

## PERTURBATION THEORY

2986 3665 3973 3988 4806 4841 6491 7296 7517 7689  
8290 8822 8898 8905 9697

## PETROLEUM DEPOSITS--- \*SEE\* RESERVOIR ENGINEERING

## PHASE CHANGES

1354 2276 9831

## PHASE LOCKED SYSTEMS--- \*SEE\* AUTOMATIC CONTROL,

## PHASE LOCKED LOOPS

## PHOTOELASTICITY

299 302 303 304 1101 1102 1493 1943 1944 1946  
1947 1949 1951 2430 2770 2771 2772 2773 2774 3560  
3563 3564 3568 5348 5349 6208 6209 6210 6211 6213  
6214 6219 7096 7075 7917 7918 7919 7920 8728 8730  
8733 8734 9951

## DYNAMIC

1959 2768 9543 9544

## MATERIALS

3562 8731 8732

## SCATTERED LIGHT

2769 3559 8729

## THREE-DIMENSIONAL

300 301 1942 1950 3561 7921

\*SEE ALSO--- STRESS AND STRAIN, ANALYSIS

## PHOTOGRAPHY

7036

## HIGH SPEED

2768 3038 5624 7083

## PHOTOPLASTICITY

3263 7077 7922

## PHYSICS

2184 3140 3141 3147 4208 4342 5803 5964 5967 5968  
6636 6642 6643 6644 8490 8498 8499 8500 9220 9939

## PIERS--- \*SEE\* FOUNDATIONS, PIERS

## PIEZOELECTRICS

1043 1497 1499 1501 2620 2647 3142 3470 3494 3499  
4025 4886 5031 5275 5277 5282 5354 6643 6648 6876  
6953 7079 7099 7715 8640 8731 9140 9940

\*SEE ALSO--- VIBRATION, PIEZOELECTRIC DEVICES

## PILES--- \*SEE\* FOUNDATIONS, FOOTINGS

## PIPE FLOW

395 7292

## CAPILLARY

756

## COMPRESSIBLE

1273 3720 6338 7274 7347 8942 8944 8945 8946 9162  
9266

## EXPERIMENTAL RESULTS

2143 2832 2854 3664 4539 5496 8193

## FLEXIBLE WALLS

2170 2944

## INCOMPRESSIBLE

2171 2836 5455 7204 8825

## INLET FLOW

389 478 1159 2117 2120 2832 3669 3683 4538 4608  
5545 6296 6307 6379 7171 7270 7271 8193 9797 9824

## LAMINAR

396 1152 1153 1179 1180 1273 2049 2050 2170 2224  
2832 2854 4942 5476 6453 7222 7412 9641

## LOSSES IN BENDS, FITTINGS, AND MANIFOLDS

395 1160 2048 3667 4538 5692 6807 7186 8947 9626  
9627

## MULTICOMPONENT

2051 4542

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## PIPE FLOW \*CONTINUED\*

MULTIPHASE  
7208

NONCIRCULAR PIPE  
397 465 470 1324 1326 1327 2227 2231 2272 3008  
3664 3786 3854 4542 5660 5670 5692 6368 6496 7171  
7412 8207 9643

NON-NEWTONIAN  
385 390 1192 1193 2117 2232 2832 3663 3664 5670  
6296 6496 8207 9814

NON-STEADY  
1273 2170 2171 2944 3786 5656 6338 8139 8222 8875  
8942 9805

POROUS WALLS  
2069 2866 3663 7222

PRESSURE DROP  
1326 2272 2832 3664 4539 5453 5455 5611 6308 6338  
6503 6507 8993

ROUGHNESS AND WALL SHEAR  
165 2838 4572 5453 8825 8827 8993

SEDIMENT TRANSPORT  
6320 8046

SHORT TUBES  
3669

TRANSITIONAL  
396 409 465 2132 2141 4615 7211

TRANSPORT OF SOLIDS  
6670

TURBULENT  
385 396 399 478 2137 2143 2170 2854 2914 3007  
4609 4627 5485 5545 5579 6308 7211 7316 7317 8193

TWO-PHASE  
1360 3808 4539 5484 5485 5610 5686 6503 7207 7209  
7441 8046 8217 9014 9162

PIPES AND TUBES  
194 200 381 1146 1382 1384 1771 2591 3148 3525  
3887 4459 5401 6072 6486 6487 7113 8751 8768

PRESSURIZED  
129 279 870 1813 2638 3374 4260 4281 9389

\*SEE ALSO\*--- BUCKLING, PIPES AND TUBES UNDER  
PRESSURE -- FLOW, INTERNAL, DUCTS -- PRESSURE  
VESSELS -- THERMOELASTICITY, TUBES

PIPING SYSTEMS  
398 1160 1274 2048 3667 4496 5414 5454 5502 6306  
7952 8031 8789

PLASMA (MEDICAL)  
1586 1587 4118 4127 4982 4986 4987 5889 6295 7607  
8024 8819 9210 9214 10020

PLASMA (NON-MEDICAL)  
5741 6468 6561

BEAM-PLASMA INTERACTIONS  
1426 1429 1434 2318 3941 3959 4808 6564 6566 6571  
6584 7485 7492 9864 9872 9878

DIAGNOSTICS  
609 616 1423 1438 1444 1445 1446 1447 1448 1449  
2312 2313 2317 2321 3070 3948 3958 3964 4833 4835  
4836 4837 4838 5754 7495 7497 9062 9070 9890

EXPERIMENTAL  
597 600 2114 3081 3088 4810 5744 6572 6574 8266  
8277 9670 9880

## PLASMA (NON-MEDICAL) \*CONTINUED\*

FUSION  
511 2319 3970 3971 4816 4821 4824 4833 4835 4836  
6562 6592 9073 9074

GENERAL THEORY  
611 1437 3082 3083 3956 3957 5507 5743 6575 6576  
6577 7482 9075 9877

GENERATORS  
617 3952 4818 6563 6581 8281 9078 9088 9888

HIGH ALTITUDE  
3080 3087 4795 6582 9059 9875

OSCILLATIONS  
1427 1428 1436 2304 3057 3121 5742 6570 6572 9070  
9869 9870

STABILITY, CONTINUUM THEORY  
1430 2306 3077 3085 3938 3942 3943 3944 3946 4812  
4814 5744 6563 6569 7484 8270 9069 9872

STABILITY, KINETIC THEORY  
603 1432 1433 1435 2305 2307 2308 2309 2310 2311  
3078 3945 4809 4810 6562 6565

THERMODYNAMIC PROPERTIES  
602 608 4790 6578 9077 9871

TRANSPORT PROPERTIES  
599 610 1440 2314 3953 4813 4815 4820 5733 7488  
7489 8273 8274 9076 9874 9876

WAVES, ACOUSTIC  
3939 3955 4794 4798

WAVES, ELECTROMAGNETIC, LINEAR  
595 3930 3961 9079 9863 9879

WAVES, ELECTROMAGNETIC, NONLINEAR  
3931 6583 8258 8265 9060 9873

WAVES, ELECTROSTATIC  
6548 8267 8278

WAVES, GENERATION  
607 1439 3071

WAVES, ION  
606 1422 3940 9071

WAVES, IONIZATION  
2325 4799 6585 7478

WAVES, MAGNETO-FLUID-DYNAMIC, LINEAR  
594 598 2303 3072 3089 3932 3934 3954 4793 4823  
6549 6550 6553 6555 8268 9063 9859 9868

WAVES, MAGNETO-FLUID-DYNAMIC, NONLINEAR  
596 2320 2322 2323 2324 3067 3068 3073 3074 3962  
4796 6556 7479 9061 9857

\*SEE ALSO\*--- ARCS -- ENERGY CONVERSION, DIRECT --  
FLAME, PLASMA -- JETS, PLASMA -- KINETIC THEORY,  
PLASMAS -- MAGNETO-FLUID-DYNAMICS -- SPACE  
PROPULSION, PLASMA -- WIND TUNNEL, PLASMA

PLASTIC WAVES--- \*SEE\* WAVES, PLASTIC

PLASTICITY  
124 125 878 1516 1882 4132 4134 4440 5626 6854  
6862 6863 6867 7087 7098 7112 7113 7612 7843 7866  
8533

CONSTITUTIVE EQUATIONS  
126 127 130 136 878 881 897 1736 1737 1742  
2598 2599 2603 2604 2606 4380 5103 5106 5109 5110  
5111 5114 5118 6010 6013 6017 6019 6168 6864 7731  
8944 8869 9353 9354 9356 9314

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## PLASTICITY •CONTINUED•

## GEOPHYSICS

4362 4363 7042

## MATHEMATICAL THEORY

135 136 882 897 1736 1737 2598 2603 3378 3381  
5102 5103 5104 5105 5109 5110 5111 5112 5114 6007  
6013 6019 6864 7728 7729 7730 8544 9353 9354 9355  
9359

## MATHEMATICAL THEORY, THREE-DIMENSIONAL

131 881 2599 2600 3379 5107 5118 6008 6017 6865  
7731 8538

## MATHEMATICAL THEORY, TWO-DIMENSIONAL

270 271 878 879 888 889 1738 1742 1746 2597  
2604 3523 3525 3527 4375 4377 5105 5107 5108 5114  
5135 6011 6012 6167 6168 6169 7723 7724 7889 8691  
8692 9354 9362 9514 9517

## MEASUREMENTS

134 138 140 142 884 890 1739 1740 1743 1745  
1748 2600 2608 2610 3375 3507 3522 3527 4362 4363  
4375 4376 4377 5115 5116 5117 5286 6014 6015 6179  
6873 7732 7733 7734 7736 7740 7741 7884 7889 8538  
8539 8544 9357 9516

## PHYSICAL THEORY

126 1067 1743 3377 3384 5101 5129 5130 5131 5133  
6868 7726 7734 7735 8539 9361 9517

\*SEE ALSO\*--- BEAMS, PLASTIC DEFORMATION --  
BUCKLING, PLASTIC -- CONTINUUM MECHANICS,  
CONSTITUTIVE EQUATIONS -- CREEP -- CUTTING  
PROCESSES -- DISLOCATION THEORY -- DRAWING --  
DUCTILITY -- ELASTOPLASTICITY -- ENERGY METHODS --  
EXTRUDING -- LIMIT DESIGN -- PLATES, PLASTIC  
DEFORMATION -- ROLLING -- SHELLS, PLASTIC --  
SHELLS, PLASTIC DEFORMATION -- SOIL MECHANICS,  
PLASTICITY -- STRAIN HARDENING -- STRESS AND  
STRAIN, RESIDUAL -- SUPERPLASTICS --  
THERMOPLASTICITY -- TORSION, PLASTIC --  
VARIATIONAL METHODS, PLASTICITY --  
VISCOELASTICITY -- VISCOPLASTICITY

## PLASTICS

282 1093 1114 1369 2608 2765 3573 4235 4441 4444  
4968 7741 7942 8016 8387 8732 8743 8749 8791 8818  
9196 9205 9206 9534 9563

## REINFORCED

111 121 122 150 308 865 1319 1783 2621 2651  
3363 3531 3532 3533 4238 5079 5087 5088 5089 5192  
5345 5996 5997 7089 7597

## PLATES

124 153 849 861 918 1766 2625 4132 4499 5173  
5349 6030 6031 6823 7612 9554

## ANISOTROPIC

165 186 670 3409 3410 5170 5175 5183 5203 6016  
6906 6931 6952 6955 7758 7776 8567 8611 8657

## BENDING

154 920 921 924 951 1762 1764 1767 1768 2626  
2627 2647 3395 3397 3398 3399 3401 4215 4245 5148  
5150 6033 6035 6036 6829 6858 6889 6893 6895 7760  
8508 8559 8574 9371 9372 9374

## BENDING, ANISOTROPIC

5172

## BENDING, ELASTIC

209 2624 9248

## BENDING, PLASTIC

130 132 876 6032 6034 6862

## BENDING, STIFFENED

3393

## PLATES •CONTINUED•

## CIRCULAR

206 332 863 946 947 2628 2648 3416 4268 5147  
6030 6858 6894 6910 7715 7758 7775 8558 9252

## COMBINED LOADS

923 8561 8571

## CREEP

3409 6858

## DYNAMIC LOADING

2650 3496 3497 4267 4306 5147 5285 5759

## FINITE DEFORMATIONS

106 171 919 946 4267 4437 6910 7755 9402

## FINITE ELEMENT METHODS

209 920 951 1760 1761 1762 3392 3396 3397 3398  
4266 4277 5146 5149 6085 6885 6890 6891 6892 7754  
8555 8556 8557 9395 9443 9566

## MARCH FEATURE ARTICLE

## FOLDED

926 1785 2014 7107 7144 7752 8557 9373

## LARGE DEFLECTIONS

171 172 173 174 922 4893 6822 6911 8571

## NONHOMOGENEOUS

101 203 856 863 1714 1770 2651 3357 6085 6858  
8575 9334 9337

## NONLINEAR

947 948 1759 5151

## ORTHOTROPIC

204 991 7074

## PERFORATED

158 303 4214 4222 5065 5225 5379 5811 6822 6882  
8006 9331 9335 9357 9383 9391 9403

## PLASTIC DEFORMATION

130 132 137 925 946 1769 1770 2650 3496 3497  
4268 4271 5177 6016 6912 7753 7756 7759 7889 8533  
8567 8569 9357

## REINFORCED CONCRETE

6248 7961

## SANDWICH

993 3134 3410 4269 5185 6596 6883 8568 8572 9392  
9394 9397

## SKEW

3400 7756

## STIFFENED

155 158 202 2648 3127 3134 5176 5177 6887 6908  
6909 7775 8586 9396

## TENSION

137

## THICK

3416 4270 6016

## WEAKENED

174 919 1765 2574 5152 5186

\*SEE ALSO\*--- BUCKLING, PLATES -- CRACK  
PROPAGATION -- DISKS -- ELASTIC FOUNDATIONS,  
PLATES -- ENERGY METHODS -- IMPACT, PLATES --  
LIMIT DESIGN AND ANALYSIS, PLATES -- PANELS --  
REINFORCED CONCRETE -- SANDWICH CONSTRUCTION --  
STRUCTURES, FINITE ELEMENT METHODS -- STRUCTURES,  
FOLDED PLATES -- THERMOELASTICITY, PLATES --  
TORSION, PLATES -- VIBRATION, PLATES -- WAVES,  
PLATES AND SHELLS

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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POISEUILLE FLOW--- \*SEE\* FLOW, INCOMPRESSIBLE,  
POISEUILLEPOLLUTION  
4541 9131AIR  
4762 4938 5451 9049 9184 9961WATER  
3673 4553 8034

## POLYMERS

120 280 1109 1194 1727 1728 1732 1881 2044 2595  
3227 3365 4090 4241 4242 4322 4536 4537 4964 4968  
5369 6000 6001 6305 6485 6861 7590 7719 7934 7948  
8238 8387 8656 9196 9205 9347 9478 9525

## DILUTE SOLUTIONS

386 1150 2832 2913 3372 4526 4960 6296 6300 8018  
8020 8021 8024 8819 8821

\*SEE ALSO\*--- PLASTICS

## PORE PRESSURE

263 7016 7017 7028 7045 8684

## POROUS MEDIA

1343 1349 1367 1368 1369 1528 1531 2277 4052 4056  
5706 7225 8344 8710 8841ANISOTROPIC  
4051

## CHARACTERISTICS

742 2713 2738 3179 7010

## COMPRESSIBLE FLUID FLOW

707 708 1530 3181 3182 5098 6682 8343 8348 9156  
9158 9159 9160 9161

## ELASTICITY

3184 5293 6122 6130 7874

## FLUIDIZED BEDS

3179 3180

## INCOMPRESSIBLE FLUID FLOW

2039 3164 3180 3208 4049 4051 4053 4055 6559 6683  
6684 6685 6686 6687 6688 6689 8346 8347

## TWO-PHASE FLUID FLOW

709 3179 3183 5098 8349

\*SEE ALSO\*--- BED, FLUIDIZED -- FILTRATION --  
GRANULAR MEDIA, FLOW THROUGH -- HEAT TRANSFER,  
POROUS MEDIA -- HYDROLOGY, GROUNDWATER --  
MICROMERITICS -- SEEPAGE -- SOIL MECHANICS,  
PERMEABILITY -- WAVES, POROUS MEDIA

## POTENTIAL THEORY

827 1252 5583 5902

## FLUID FLOW

411 1250 3711 4653 5467 5501 6340 7232 8900

## FLUID FLOW, AXISYMMETRIC

1173 4558 4578 5472

## FLUID FLOW, PLANE

2850 2853 5468 5469 6407

## FLUID FLOW, WITH SINGULARITIES

1196 1246 1249 1280 2851 2922 3758 3799 3806 4631  
4634 4656 4659 5581 5582 6406 6456 7188 7324 7325  
8124 8125 8128 8161 8919 8921 8922 8969

## SOLID MECHANICS

9314

## POWER PLANTS

54 1381 1382 1383 1384 3009 4650 7385 8484

## GAS TURBINES

6539 8150 8250 8253 9050

## HYDROELECTRIC

8025

## NUCLEAR

3920 3922 5486

## SPACE VEHICLE

3110 9112

## STEAM

73 3042 4770 5486 6538 6539 8247 8250 9021 9045

\*SEE ALSO\*--- FLUID POWER -- SPACE VEHICLE HEAT  
TRANSFER, POWER PLANTS

PRECIPITATION--- \*SEE\* HYDROLOGY, RAINFALL

## PRESSURE EXCHANGE

8957

## PRESSURE MEASUREMENT

514 1104 1414 3813 3815 3918 4603 4682 8256 8674  
8923 9041

## GAGES

3812 5030

## TRANSDUCERS

1299 2776 3848 4789 5030 5819 7245 9761

\*SEE ALSO\*--- FLOW MEASUREMENT -- MANOMETERS --  
PIEZOELECTRICS -- PRESTON TUBE -- TRANSDUCERS AND  
GAGES

## PRESSURE VESSELS

294 359 1098 2009 2766 7057 7113 7138 9598 9600

## ANALYSIS

355 356 357 2810 4493 4494 5329 5413 6264 8785  
8786 8788 9599

## COMPOSITE

3616 7139

## DESIGN

3615 3849 7982

## MULTI-LAYER

2010 2011

## PRESTRESSED

358 873 5412

## REACTOR

358

## TESTING

2007 2008 3578 3613 4393 4458 8717 8748

\*SEE ALSO\*--- BOILERS -- FATIGUE, PRESSURE  
VESSELS -- HIGH PRESSURE -- NOZZLES -- PIPES AND  
TUBES, PRESSURIZED

PRESSURE WAVES---\*SEE\* WAVES, COMPRESSIONAL

## PRESTON TUBE

1205 3762

## PRESTRESSED CONCRETE

873 2797 3371 4416 4483 5392 5401 5402 5403 5404  
5409 6260 6263 7126 7130 7956 7960 7967 7970 7971  
7972 8775 9988

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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PRESTRESSED STRUCTURES--- \*SEE\* STRUCTURES,  
PRESTRESSED

# PROBABILITY THEORY

19 784 795 1625 2472 2473 2790 3590 3866 4151  
4500 5395 9220 9241 9244

HIT  
1977

\*SEE ALSO\*--- ERROR, THEORY -- FAILURE, PROBABILITY  
THEORY

# PROJECTILES

1889 3706

\*SEE ALSO\*--- MISSILES -- PENETRATION, PROJECTILE

PROPAGATION---\*SEE\* UNDER MODIFIER

# PROPELLANTS

BURNING RATE  
5716

IGNITION SENSITIVITY  
8234

LIQUID  
2299

PERFORMANCE  
2299

SOLID  
1400 1401 3034 5716 5717

\*SEE ALSO\*--- COMBUSTION -- IGNITION -- SPACE  
VEHICLE PROPULSION

# PROPELLERS

1251 2951 7370 8920 9533

AIRPLANES  
510

DUCTED  
5615 6625 7369 7370

MARINE  
1285 3222 4082 5864 8795 9998 9999

\*SEE ALSO\*--- CAVITATION, PROPELLERS -- VIBRATION,  
PROPELLERS

PROPULSION---\*SEE\* UNDER MODIFIERS

# PUMPS

393 451 3668 5372 7353 8147 8148

AXIAL  
2057 5616 7371 9745

CENTRIFUGAL  
3465 3800 4667 5613 7363 8152 8955 8956 9615

FLOW CHARACTERISTICS  
1278 2953 3807 4661 4674 4675 4676 7364 8139 8157  
8962 9744

MAGNETO-FLUID-DYNAMIC  
2329 3094 3929 4832 5753 7486 9085

MIXED  
4661 4675

POSITIVE DISPLACEMENT  
6447 6448

\*SEE ALSO\*--- CAVITATION, PUMPS -- EJECTORS --  
JET PUMPS

## Q

QUANTUM MECHANICS--- \*SEE\* DYNAMICS, QUANTUM  
MECHANICS

QUEUE THEORY  
798 7632 9246

## R

# RADIATION

3870 3871 3872 3873 5671 5674 7433 7434

DAMAGE  
294 1729

PROPERTIES  
1747 2254

\*SEE ALSO\*--- HEAT TRANSFER, RADIATION

RADIATION PRESSURE  
629 7516

# RADIOACTIVE

ISOTOPE TRACERS  
2275

RADIO ASTRONOMY  
9587

RAILROAD SYSTEMS  
4365

EQUIPMENT  
2016 5429 6271

HIGH SPEED TRAINS  
8793

LOCOMOTIVES  
6270

RAILS  
6270

TESTS  
6272

\*SEE ALSO\*--- VEHICLES, RAILWAY TRAINS

# RAILS

1931 9535

\*SEE ALSO\*--- BRIDGES, RAILROAD -- RAILROAD  
SYSTEMS, RAILS

RAINDROPS--- \*SEE\* DROPS

RAINFALL--- \*SEE\* HYDROLOGY, RAINFALL

RANDOM PROCESSES--- \*SEE\* STOCHASTIC PROCESSES

# RAREFIED GASES

430 1552 1554 2108 2109 2110 2115 5507 5565 7264  
7265 7266 7267 7268 7269 7272 7279 7282 7283 7284  
8079 8080 8081 8082 8083 8894 9018 9674 9676 9677

BEAM EXPERIMENTS  
2114

# FREE-MOLECULE FLOW

451 2111 2112 2113 4602 4603 4604 4605 6558 7273  
7275 7276 7277 7278 7280 7281 8086 8087 8088 8090

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## RAREFIED GASES \*CONTINUED\*

GAS-SURFACE INTERACTIONS  
2116 3902 4730 4828 5669 6568

JUMP CONDITIONS  
2734

SLIP FLOW  
456 4730 5750 7270 8084 8085 8099

TRANSITION FLOW  
461 7271 7277 8077

\*SEE ALSO\*--- MOLECULAR BEAMS

RATIONAL MECHANICS--- \*SEE\* CONTINUUM MECHANICS

REACTION KINETICS--- \*SEE\* COMBUSTION, REACTION KINETICS

REDUNDANT STRUCTURES--- \*SEE\* STRUCTURES, STATICALLY INDETERMINATE

REENTRY  
637 638 639 640 2094 2348 2349 2528 3996 3997  
3998 4597 5776 5777 6611 8066 8301 9113 9660 9666  
9757

\*SEE ALSO\*--- SPACE VEHICLE HEAT TRANSFER, REENTRY

REFRACTION  
1522

\*SEE ALSO\*--- INTERFACE PHENOMENA -- SOUND, REFRACTION

REFRACTORIES  
7051 8784

\*SEE ALSO\*--- FURNACES -- MATERIAL TEST TECHNIQUES

REFRIGERATION, AIRCONDITIONING  
3013 3887 7439 8184

THERMOELECTRIC  
3927

\*SEE ALSO\*--- HEAT PUMPS -- THERMOELECTRIC PHENOMENA, REFRIGERATION

REGENERATORS  
1381 1382 2273 3013 3014 3015 3890 4751 5693 9021  
9830

\*SEE ALSO\*--- AIR PREHEATERS -- HEAT EXCHANGERS

REINFORCED CONCRETE  
3599 4474 5400 6260 6976 7129 7960

CONSTRUCTIONS  
151 3597 3626 4480 5381 5387 5388 7142 9582

CORROSION  
336 2005 4575

CRACKING  
1983 1988 2005 4395 7963 7964 7967 8770

DESIGN, ELASTIC  
3594 6255 7966 9895

DESIGN, LIMIT  
4465 5396 5397 6249 7961 7966 7968 8533 8766 9583

DESIGN, ULTIMATE STRENGTH  
5383

FOOTINGS  
3511 7033

## REINFORCED CONCRETE \*CONTINUED\*

PIPES  
2785 5416

SHRINKAGE  
1990 7116 7982

SLABS  
3598 4478 6250 7963 8769 8776 9580 9584

STRUCTURAL ANALYSIS METHODS  
166 341 1988 1989 2789 2790 2792 2793 2795 3370  
3371 3395 3600 3602 3603 3623 4475 5398 5399 7127  
7967 7969

TESTS AND TESTING  
1985 1986 1998 3395 3596 3598 3627 4476 5324 5390  
5391 6252 6254 7117 7128 7141 7142 8765 8770 9585

THERMAL STRESSES  
8767

ULTIMATE STRENGTH  
335 350 1987 1991 5392 6253

\*SEE ALSO\*--- ARCHES AND VAULTS -- BEAMS, REINFORCED CONCRETE -- COLUMNS, REINFORCED CONCRETE -- CONCRETE AND MASONRY -- FATIGUE -- PLATES, REINFORCED CONCRETE -- SHELLS, REINFORCED CONCRETE -- STRESS AND STRAIN -- STRUCTURES

REINFORCED MATERIALS--- \*SEE\* COMPOSITE MATERIALS, REINFORCED

RELATIVITY  
630 1604 1617 2195 3709 3983 4204 4208 5970 5975  
6424 6462 6619 8498 8499 8500 8850 9115 9766

RELAXATION METHODS  
873 5108 8533

RELIABILITY  
3333 4202 8439

RENDEZVOUS  
2392 3104 3114 3988 4003 4004 4005 5779 5780 7521  
8307

RESERVOIR ENGINEERING  
4540 8352

\*SEE ALSO\*--- FILTRATION -- GEOPHYSICS, EXPLORATION -- POROUS MEDIA -- SEEPAGE -- WELLS

RESIDUAL STRESS AND STRAIN---\*SEE\* STRESS AND STRAIN, RESIDUAL

RESONANCE--- \*SEE\* VIBRATION, STABILITY

RETAINING WALLS--- \*SEE\* WALLS, RETAINING

REYNOLDS ANALOGY  
461 1227 2901

RHEOLOGY  
383 384 1149 1727 6251 7042

COLLOIDS AND SUSPENSIONS  
1156 3666 4530 4533 6304 8824

CONSTITUTIVE EQUATIONS  
389 392 1151 1157 2038 2041 2044 3502 3665 3666  
5098 6298 6299 6300 6872 8013 8016 8019 8023 8024  
8669 8824

DYNAMIC PROPERTIES  
1154 1155 1157 2038 2039 2044 2829 4338 4533 4534  
4537 5098 6159 6294 6297 7014 8014 8021 8024 9499

MEASUREMENTS  
386 392 1153 1154 2046 3372 3373 4530 4532 4535

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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RHEOLOGY \*CONTINUED\*  
 MEASUREMENTS \*CONTINUED\*  
 4536 4537 6294 6296 6297 6302 6861 8014 8015 8016  
 8018 8021 8821 8823 8824

\*SEE ALSO\*--- CONTINUUM MECHANICS, CONSTITUTIVE  
 EQUATIONS -- FLOW, INCOMPRESSIBLE,  
 NON-NEWTONIAN -- PLASTICITY -- VISCOELASTICITY --  
 VISCOPLASTICITY

RINGS--- \*SEE\* ARCHES AND VAULTS

RIVERS--- \*SEE\* STREAMS, NATURAL

ROAD BEDS--- \*SEE\* HIGHWAYS AND RUNWAYS

ROCK MECHANICS  
 1895 1901 3187 3192 3507 4060 4919 7042 7881 7882

DYNAMICS  
 1903 1904 3517 3519 4011 4370 4372 4373 6159 6160  
 7043 7047 7879

MATERIAL PROPERTIES  
 263 264 265 266 267 268 1062 1063 1064 1065  
 1066 1899 1900 1902 3518 3520 4369 4371 4372 4374  
 6157 6160 6161 6162 6163 7040 7043 7047 7877 7880  
 7883 8687 8691 8692 8693 8695 8697

STRESS ANALYSIS  
 263 267 268 1062 1899 2003 4011 4368 4371 5287  
 6158 6161 6165 6166 7034 7040 7044 7048 7049 7877  
 7878 8688 8689 8690 8694 8696 8782 8783

TESTING METHODS  
 264 265 266 268 1062 1063 1064 1066 1900 1902  
 3520 4368 4373 5287 6157 6161 6162 6165 6166 7040  
 7043 7044 7883 8693 8695 8697 9313

\*SEE ALSO\*--- SEISMOLOGY -- SOIL MECHANICS, EARTH  
 PRESSURE

ROCKETS  
 583 4641

COMBUSTION CHAMBERS  
 3030 3909 4765 8246 8930 9843

CONTROL  
 4848 5764

GASEOUS FUEL  
 1407 4785

LIQUID FUEL  
 3030 3919 7423

MOTORS  
 2983 3919 4785 7149 7467 8139 8255 9052 9844

NOZZLES  
 8886 9852

SOLID FUEL  
 1945 5718 6101 7467 9883

SOUNDING  
 631 3216 4640

\*SEE ALSO\*--- METEOROLOGY, ROCKETS AND  
 SATELLITES -- MISSILES -- PERFORMANCE, ROCKET  
 MOTOR -- SPACE POWER -- SPACE VEHICLE DESIGN --  
 SPACE VEHICLE PROPULSION -- VIBRATION, MISSILES  
 AND ROCKETS

RODS--- \*SEE\* BEAMS

ROLLING  
 125 272 273 1907 2033 3923 3924 4102 4378 5311  
 7732 7889 7890 9350 9318

ROLLING \*CONTINUED\*

\*SEE ALSO\*--- DRAWING -- EXTRUDING -- FORGING --  
 FORMING

ROPE--- \*SEE\* CABLES AND FLEXIBLE FILAMENTS

ROTATING CYLINDERS, FLOW BETWEEN  
 418 464 604 605 1192 2073 2230 2867 4564 4576  
 5474 5490 5498 5860 6302 6305 7196 7202 7214 7223  
 7226 7230 8043 9638

ROTATING DISKS  
 425 1177 1325 1473 1788 2063 2065 2085 2219 2268  
 4562 6339 6510 7200 7777 7778 8051 8142 8323 8575  
 8856 8986 9020 9640

FLOW BETWEEN  
 419 459 1183 2906 3937 6294 6302 6330 8015 8714  
 8899

STRESSES  
 952 953 5188 6051 6854 6858 6862 9325 9405

\*SEE ALSO\*--- VIBRATION, ROTATING DISKS

ROTATIONAL FLOW  
 414 425 426 1151 1191 1192 1196 2039 2043 2077  
 2082 2851 2852 2871 2932 3665 3960 4559 4570 5461  
 5470 5471 5501 6297 6342 7188 7189 7190 7191 7192  
 7199 7225 7228 7335 7342 7349 8014 8015 8023 8051  
 8136 8850 8855 8860 8870 8934 8939 9639 9648 9724

\*SEE ALSO\*--- FLOW, INCOMPRESSIBLE, NONVISCIOUS,  
 ROTATIONAL -- ROTATING CYLINDERS, FLOW BETWEEN --  
 ROTATING DISKS, FLOW BETWEEN -- VORTEX FLOW

RUNOFF--- \*SEE\* HYDROLOGY, RUNOFF

RUNWAYS--- \*SEE\* HIGHWAYS AND RUNWAYS

## S

SAMPLING OF DATA  
 16

\*SEE ALSO\*--- AUTOMATIC CONTROL, DISCRETE AND  
 SAMPLED DATA SYSTEMS -- OPTIMAL AUTOMATIC CONTROL,  
 DISCRETE AND SAMPLED DATA SYSTEMS

SAND  
 240 241 243 247 252 261 742 1061 1314 2403  
 3503 3511 3512 3515 3516 4342 5291 5294 5298 6122  
 6128 6129 6137 6142 6144 6146 7007 7021 7870 7874  
 8667 8670 8684 9169 9494 9496 9505 9508 9512

SANDWICH CONSTRUCTION  
 170 938 941 1727 2331 2622 4235 4251 8532 8764

\*SEE ALSO\*--- BUCKLING, SANDWICH CONSTRUCTION

SATELLITES  
 45 636 641 1459 1467 1556 2343 2347 2350 3098  
 3107 3108 3111 3113 4842 4853 4941 5778 6613 7513  
 7517 8304 9106 9109 9110 9115 9116 9904 9905 9908  
 9909 9914

\*SEE ALSO\*--- ARTIFICIAL SATELLITES --  
 ORBIT MECHANICS -- RADIATION PRESSURE --  
 REENTRY -- RENDEZVOUS -- TESTING

SCALE EFFECT  
 2847 6014 7010 7572 8710

\*SEE ALSO\*--- MODEL STUDIES

SCHLIEREN METHOD--- \*SEE\* OPTICAL TECHNIQUES

SCREENS--- \*SEE\* GRIDS AND SCREENS

SCREWS

752

\*SEE ALSO--- JOINTS AND JOINING PROCESSES, BOLTED

SEALS

374 1570 2821 2822 4089 4514 4516 5873 6290 7157  
7999 8076 9652

SEAPLANES AND FLYING BOATS

3981 6140

SECONDARY FLOW

INCOMPRESSIBLE

1151 3665 4559 5489 5490 7192 8863

\*SEE ALSO--- FLOW, INCOMPRESSIBLE, VISCOUS,  
SECONDARY

SEDIMENT TRANSPORT

407 1164 1165 1268 1518 1520 1521 1523 3174 4552  
4553 5451 5462 5463 5487 6320 6671 7207 8033 8039  
8036 8045 8858 8840 8841 8842 8844 9635 9636 9637

\*SEE ALSO--- PIPE FLOW, SEDIMENT TRANSPORT

SEDIMENTATION

2847 4056 5464 6322 7871 8035 8036 8843

SEEPAGE

2843 6689 7876

UNSTEADY FLOW

6686

\*SEE ALSO--- WELLS

SEISMOLOGY

711 713 714 715 1532 1534 1535 2406 2408 2411  
2412 2413 3186 3187 3188 3189 3192 3195 4057 4058  
4062 4916 4918 4921 4923 4924 6693 6694 6695 6696  
6698 6699 6700 7373 7560 7561 7562 7564 8355 8357  
9165 9962 9964 9967

EARTHQUAKES

405 710 1536 1537 2409 2410 2707 2934 3191 3197  
3519 4011 4060 4917 4920 4922 5297 6123 7041 7565  
7566 7567 7569 7834 8394 8396 8361 9164 9963 9965  
9966

EXPLOSIONQUAKES

712 1533 2407 3193 3194 4059 6697 7005 7563 7865  
8393 9164 9968

MICROSEISMOLOGY

3190

\*SEE ALSO--- GEOPHYSICS, EXPLORATION

SELF IGNITION---\*SEE\* IGNITION, SELF

SEMICONDUCTORS

5307 8268

SERIES EXPANSION AND OTHER APPROXIMATIONS

3 4 1627 5943 6763 6769 7634 8440 9248

FOURIER SERIES

1605 1632 3283 4998 5891 6007 7634 8427 8429 8440  
9248 9614

SERIES IN OTHER SETS OF FUNCTIONS

2 769 770 771 772 3284 3296 3297 3299 3305  
4149 4163 6872 7634 8440

SERIES OF OTHER ORTHOGONAL FUNCTIONS

4137 4148 7634 8440 9228 9314

SETTLEMENT OF SOILS--- \*SEE\* SOIL MECHANICS

SEWERAGE

8025

FLOW

3174 8034

SETTLING TANK

2005 6321

SHAFTS

1086 5440 7988 9440 9533

CRITICAL SPEED

3443 4295 7813 8608

WHIRLING

5875 7812

\*SEE ALSO--- AXLES -- TORSION, SHAFTS --  
VIBRATION, SHAFTS

SHEET STRINGER PANELS--- \*SEE\* PLATES, STIFFENED

SHEAR LAYER

476 1288 2148 3764 4595 4628

LAMINAR

443 2038 3666 4533 7296

STABILITY AND TRANSITION

4614 5574

TURBULENT

454 4622 5530 8122 9696

\*SEE ALSO--- BOUNDARY LAYER -- JETS -- WAKES

SHELLS

124 162 929 938 2625 4132 4252 5642 6041 6921  
7612 8525 9450

ANISOTROPIC

675 1727 3374 3411 3457 3459 3460 3525 4262 5170  
5180 5259 6016 6855 6906 6907 8614

BENDING, ARBITRARY SHAPE

3394 6089 6900 7765

BENDING, AXISYMMETRIC

157 936 1781 1808 2637 2641 4255 5158 6040 6084  
6821 9412

BENDING, STIFFENED

4276 4282

COMBINED LOADING

129 1741 3408 5117 6016

CONICAL

156 163 684 936 1778 2633 2636 2639 2643 5158  
5187 6044 6956 7770 8595 8614 9233 9386 9412 9416  
9420

CREEP

684 943 1510 1511 1817 2591 3367 5097 5157 6004  
6855

CYLINDRICAL

159 926 927 935 1777 1778 1779 1782 1783 1786  
1787 1869 2637 2649 3367 3403 4224 4229 4253 5153  
5168 5169 5174 5259 6042 6046 6048 6049 6484 6901  
6905 6913 7072 7126 7729 7762 7766 7767 7769 8533  
8566 8570 8592 8707 9382 9389

CYLINDRICAL, STIFFENED

939 1732 1778 1814 4278 4282 5178 6047 6068 6069  
7772 9393 9399 9417

CYLINDRICAL, THICK

870 1732 1741 1948 3380 6016 6179 6855 6859 6905

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## SHELLS \*CONTINUED\*

CYLINDRICAL, THICK \*CONTINUED\*

7727

CYLINDRICAL, THIN

210 690 870 995 3381 3525 3537 5097 5117 6004

DYNAMIC LOADING

933 2646 3417 6886 6956 9128 9421

ELLIPSOIDAL

846 8786

FINITE ELEMENT METHODS

928 995 5162 5166 5169 6029 6038 6897 6902 9376  
MARCH FEATURE ARTICLE

GENERAL THEORY

930 934 2644 2652 2653 3391 4211 4280 5164 5167  
5230 6031 6037 6043 6900 6902 6903 8553 8554 8560  
9143 9380 9381 9384 9388

HELICAL

2634 4254

HYPERBOLIC PARABOLOID

2812 3390 3406 4257 4258 6039 6899 9379

INTERSECTING

927 1773 1774 5156 9383

LARGE DEFORMATION

937 945 950 1784 3415 4263 5182 6913 9401

LATTICE

5171

LOCAL BENDING

8570

LOCAL STRESSES

1869 2645

NONHOMOGENEOUS

159 1757 4262 4264 6040 7727

NONLINEAR

948 2635 2649 3414 3418 5154 5165 5181 5230 6048  
6065 6066 6880 6881 7768 8562 9390 9416

PLASTIC

163 175 942 1741 1840 2807 3381 3525 6865 9358

PLASTIC DEFORMATION

129 130 1741 2642 3374 3380 3526 3537 5117 6016  
7727 7728 7729 8533

REINFORCED CONCRETE

7138 7967 9595

REVOLUTION

160 176 937 944 945 1727 1772 2635 3407 4256  
4261 4264 4265 5182 5229 5232 6898 6907 7761 8562  
8564 9385 9398 9400 9404

SANDWICH

942 1116 1784 3412 4269 5187 5201 6050 7822

SHALLOW

157 928 932 933 948 950 1776 1780 2632 2633  
3406 4259 4279 5153 5202 6044 6089 6884 6928 7763  
7764 7771 8566 9387 9398 9413

SPHERICAL

161 933 949 1778 1786 1789 2446 2567 2766 3404  
5161 6066 6865 7138 7728 7763 7771 8565 8706 9378  
9600

STIFFENED

167 168 940 943 1783 1840 6926 6932 7774 8788  
9414

## SHELLS \*CONTINUED\*

TORISPHERICAL

9599

TOROIDAL

8423 9415

WITH OPENINGS

156 4224 5155 5161 6901 7773 8573

\*SEE ALSO--- BUCKLING, SHELLS -- ENERGY METHODS --  
FLUTTER, SHELLS -- LIMIT DESIGN AND ANALYSIS,  
SHELLS -- PIPES AND TUBES -- SILOS -- STRUCTURES,  
FINITE ELEMENT METHODS -- THERMOELASTICITY,  
SHELLS -- TORSION, SHELLS -- VIBRATION, SHELLS

SHIP--- \*SEE\* MARINE ENGINEERING

SHOCK

4696

ABSORBERS

2023 2706 2818

DAMAGE

3448 4959 6277

MECHANICAL

6277

TESTING

318 7842

\*SEE ALSO--- IMPACT

SHOCK TUBES

437 652 1221 1293 1301 2147 2191 2193 2884 3721  
3748 3831 3832 3833 3834 4617 4687 4688 4689 4690  
4691 4692 4693 5517 5569 5623 5624 6121 6351 6458  
6499 7245 7294 7380 7427 7438 8227 9759 9760 9761  
9812 9833

MAGNETIC

1300 2190 3070 3708 3949 3950 4825 5747 6588 7491

TUNNELS

520 521 2192 3719 4579 4694 4826 5619 8970 8971  
8972 9758

SHOCK WAVES IN FLUIDS

430 435 438 439 440 1206 1211 1213 1218 1221  
2101 2102 2870 2882 2885 3699 3702 3707 3708 3711  
3716 4587 4589 4592 4593 4742 4856 5451 5510 5518  
5523 5524 5531 5787 6356 6362 6427 6498 6500 6621  
7244 7249 7254 7347 7348 7438 7534 8056 8061 8074  
8135 8317 8882 9027 9655 9661 9663 9665

DETACHED

434 446 1198 1199 1203 1204 1220 1300 2094 2096  
2097 2099 2100 2879 3704 4597 4740 4741 5513 5517  
6343 6344 7247 8063 8072 8215 8687 9653 9666

DIFFRACTION

2883 5520 8073

INTERACTION

1490 2191 2362 3537 3710 4687 5522 5749 6353 6627  
7241 7246 8069

MEASUREMENT

433 2184 2326 2358 3090 3721 3933 4681 6587 6589  
7248 7375 9080

NORMAL

437 1207 1208 1301 2189 2995 3069 3700 3833 3844  
5668 6351 6352 6355 8883 9010 9812

REFLECTION

2884 3710 4326 4590 4591 7242 7245 9662 9664 9761

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## SHOCK WAVES IN FLUIDS \*CONTINUED\*

REFRACTION  
4326STABILITY  
5745

## STRUCTURE

433 436 456 526 1219 1496 2098 2886 3086 3448  
3701 3709 3935 4588 4866 5516 5521 5569 5783 7264  
8894

## OBLIQUE

1210 1212 3715 5305 6354 6586 6780 8878 9654

\*SEE ALSO\*--- COMBUSTION, SHOCK WAVES --  
HIGH PRESSURE -- WAVES, REFLECTION AND REFRACTION

## SHOCK WAVES IN SOLIDS

1016 1042 2719 2724 2734 3501 4328 5255 5280 6121  
7003 7004ATTENUATION  
6119INTERACTION  
8543STABILITY  
5746

\*SEE ALSO\*--- FRACTURE, SPALLATION -- HIGH PRESSURE

## SILOS

1060 1123 2004 3614 7137 7140 9597

## SIMILITUDE--- \*SEE\* DIMENSIONAL ANALYSIS

## SIMULATION

35 36 281 1304 2418 2490 4849 4850 5796 5919  
7651 7657 9274 9832

## ANALOG

3641 4163 4164 4165 5002 5003 5918 8455 8456 9264  
9265

## DIGITAL

28 29 54 1638 2489 8453 8454

\*SEE ALSO\*--- COMPUTING TECHNIQUES

## SKIN FRICTION

4612

## FLUID FLOW

388 431 455 1205 2159 2263 2924 3734 3762 3769  
5510 5554 6395

## SLIP FLOW--- \*SEE\* RAREFIED GASES, SLIP FLOW

SLOPE STABILITY--- \*SEE\* SOIL MECHANICS, SLOPE  
STABILITY

## SLOSHING--- \*SEE\* LIQUID SLOSHING

## SNOW

1538 2974 4949 6692 7570 9987

## SOIL MECHANICS

262 3507 3508 6269

## BEARING CAPACITY

253 257 1052 1055 1886 2742 4345 4346 4347 4349  
4350 4352 5289 5306 6131 6135 6140 6145 6147 6155  
7007 7024 7031 7039 8679 9498 9508 9512

## COMPACTION

242 2737 2746 3512 4356 4366 5291 5301 6122 6154  
7013 9488

## SOIL MECHANICS \*CONTINUED\*

## CONSOLIDATION

241 244 245 1886 1894 3502 3504 4338 4340 4341  
4360 5292 5293 5295 5301 5303 6126 6130 6132 6133  
6137 6154 6155 7011 7012 7020 7039 7875 8667 8671  
8672 9494 9496 9497 9498 9499 9502

## DYNAMICS

251 1889 4348 5297 6128 6137 6139 8617 8670 8673  
9435 9494 9504 9507

## EARTH PRESSURE

255 257 258 259 260 1053 1060 1885 1888 1896  
1897 2739 2743 2744 3502 3505 3516 3517 4336 4349  
4354 4360 5287 5294 5295 5298 5300 5302 5307 5308  
6124 6135 6137 6142 6143 6145 6146 6148 6149 6153  
7015 7022 7024 7034 7045 7048 7049 7877 8673 8674  
8678 8685 8686 9503

## MOISTURE

242 244 246 247 250 707 2214 2742 2974 3509  
3879 4050 4053 4336 4338 4340 4353 4554 5292 5295  
5299 6123 6125 6130 6132 6138 7016 7017 7019 7036  
7872 8667 8668 8670

## MULTILAYER

248 1052 1892 1894 2974 3509 4357 6135 6143 7025  
9499 9501 9504

## PERMEABILITY

707 1527 3506 4050 4053 4340 4341 4344 5292 5293  
7011 7016 7880 7881 8344 8667 8672 8684 9159 9497

## PLASTICITY

245 248 250 259 260 1885 1888 1890 2738 2739  
3369 3502 4336 4360 5290 5296 5302 6123 6134 6135  
7014 7020 7870 9502

## PROPERTIES

240 241 242 243 244 245 246 247 249 250  
256 259 260 261 1052 1886 1887 1888 1889 1890  
1892 1893 1898 2737 2738 2739 2741 2743 2747 3503  
3504 3510 4336 4337 4343 4353 4357 4360 4532 5098  
5287 5288 5290 5302 6125 6126 6127 6129 6134 6136  
6152 6153 6156 7006 7009 7014 7016 7020 7026 7034  
7036 7039 7868 7869 7871 7872 7873 7874 7875 9495  
9496 9500 9501

## SETTLEMENTS

253 254 261 1053 1892 1894 1901 2740 2746 3510  
3512 4339 4346 4348 4362 4363 4373 4554 5288 5291  
5292 5297 5303 5304 6128 6133 6140 6144 6151 7023  
7028 7029 7039 8667 8670 8677 8681 8684 9513

## SLOPE STABILITY

256 258 1059 1885 1887 1895 1898 3502 4360 4361  
5297 6123 6153 8683 8685 9513

## STABILIZATION

246 247 254 255 257 1061 1893 1899 4367 5301  
7035 9500

## TESTING METHODS

240 243 245 249 250 252 254 261 262 1527  
1885 1891 1892 1894 2737 2741 2746 2747 3503 3505  
3506 3509 3512 3513 3514 3516 4341 4343 4346 4347  
4352 4353 5287 5288 5299 5300 5305 5307 5308 6122  
6124 6125 6127 6128 6136 6137 6139 6144 6147 6148  
6152 6154 6155 7006 7008 7016 7017 7021 7026 7029  
8672 8673 8678 9455 9494 9495 9503 9505 9506 9507  
9510 9512\*SEE ALSO\*--- CLAY -- DAMS -- FOUNDATIONS -- HEAT  
TRANSFER, SOIL -- HIGHWAYS AND RUNWAYS --  
HYDROLOGY -- PERMAFROST -- PILES --  
RETAINING WALLS -- SAND -- SEDIMENTATION --  
SEEPAGE -- TRAFFICABILITY -- TUNNELS -- VIBRATION,  
SOIL -- WELLS

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## SOLAR

7439

## COLLECTORS

7582

## ENERGY

2979 4705 9913

## WIND

8371

## SOLDERING--- \*SEE\* BRAZING AND SOLDERING

## SONIC BOOM

646 1496 3125 3448 4865 4866 5285 5792 5793 6627  
6631 8314 8316 9132 9925

## SOUND

727 1598 1599 1600 1602 2363 2373 4747 4931 8135  
8315 9964 9968

## ABSORPTION

658 664 1480 2376 3119 3131 3132 3143 4017 4022  
4883 4889 6139 6630 6635 6636 6638 6641 7526

## ACOUSTIC LOADING

213 1474 2360 3448 4872 5805 7528 9129 9135

## ATTENUATION

652 653 660 664 667 1480 1492 1497 1498 3137  
4026 5488 5792 6428 6640 6649 7542 8312 9137 9936

## DIFFRACTION

1487 1489 1491 2368 2369 2372 2381 3127 3130 3131  
4882 5790 6428 6633 6634 7534 9134 9935

## DIFFUSION

655 658 659 3126 4874 6633 6649

## DISPERSION

2796 7539

## ECHOS

4878

## ENERGY DENSITY

2359 2412 4865

## EXPERIMENTAL

659 715 1480 1482 1483 1484 1485 3122 3136 3139  
4019 4024 4027 4030 4867 5804 6635 7526 8312

## FIELDS

648 659 660 1487 1488 1489 1491 2366 2379 3122  
3126 3146 3781 4012 4013 4754 5655 5789 5790 5791  
5793 6624 6625 6646 7524 7533 7537 8220 8309 9134  
9139 9442

## GENERATION

645 647 660 721 1473 1475 1476 1485 2359 2384  
3120 3123 3175 4011 4014 4016 4747 4864 4868 4870  
5789 6639 6645 7527 7534 7540 8309 9929

## LIQUIDS

1488 2172 2374 3175 4025 4027 4028 4029 5804 6626  
6638 6640 6640 7534 7541 8309 9138 9938

## MEASUREMENT AND INSTRUMENTS

663 665 668 1473 1475 1477 1478 1480 1481 1482  
1483 1485 1492 1493 1498 1500 2359 2361 2377 2382  
2383 3136 3144 3146 4013 4030 4873 4876 4877 4880  
5803 5804 6626 6632 6641 6644 6647 6648 6649 6650  
7541 7578 8319 9139 9140 9142 9932 9933 9934 9937

## PRESSURE

644 649 1473 1490 2377 4025 4864 4865 4874 4879  
4880 4891 5791 5804 6625 6626 6627 6628 6639 8138  
9136 9938

## PROPAGATION

653 666 715 1487 1490 3791 4027 4868 4881 4888

## SOUND \*CONTINUED\*

## PROPAGATION \*CONTINUED\*

5854 6637 6640 6642 8317 8318 9926 9928

## PROPAGATION IN DUCTS

2172 2366 2382 3148 4014 4018 5604 5789 5792 6625  
8317 8945 8946 9930

## RADIATION

9 642 643 644 661 1475 1489 2360 2368 2369  
2384 3121 3129 4012 4013 4018 4879 4884 5790 5791  
5804 6623 6624 6626 6646 7524 7525 7538 9130 9133  
9135 9138 9926 9927 9937

## RANDOM

650 651 4870 4873 4881 5791 6637 8311

## REFLECTION

656 1547 2365 2367 3127 4028 4056 4880 4881 4884  
6428 7532 7536 7539 8316 9442 9935 9941

## REFRACTION

1488 3119 5799 7537 8310 8316

## REVERBERATION

657 3145 4020 4021 6649

## SCATTERING

653 656 668 1487 1491 1496 2370 2371 2380 3127  
4017 4879 4882 5797 5798 5800 7532 7535 9134 9136  
9137 9930 9933 9934

## TRANSMISSION

651 653 655 662 1488 1489 2367 3134 3791 4028  
4880 4886 6139 6623 6709 7536 7538 7539 8313 9135  
9936 9941

## VELOCITY

660 663 2366 2378 2383 2872 3135 3138 3139 3142  
4023 4024 4029 4864 4885 4889 5488 6160 6641 6642  
6647 7394 7541 9142 9771

## WAVES

652 2172 5854 9816

\*SEE ALSO--- AEROTHERMOACOUSTICS -- IMPEDANCE  
METHODS -- INTERFACE PHENOMENA -- NOISE --  
SONIC BOOM -- TURBULENCE

## SPACE NAVIGATION AND GUIDANCE

638 3987 4849 4851 5026 5767 6805 9108 9906

## GUIDANCE OPTIMIZATION

635 640 1462 9931

## GUIDANCE THEORY

7510

## MIDCOURSE GUIDANCE

3991

## NAVIGATIONAL EQUIPMENT

78

\*SEE ALSO--- CELESTIAL MECHANICS -- LIQUID  
SLOSHING -- ORBIT MECHANICS -- SPACE VEHICLE  
STABILIZATION

## SPACE POWER

7515 9082

## SOLAR

4703 8300

\*SEE ALSO--- SPACE NAVIGATION AND GUIDANCE

## SPACE VEHICLE DESIGN

7103

## LANDING DEVICES

6438 7864

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## SPACE VEHICLE DESIGN \*CONTINUED\*

LIFE SUPPORT SYSTEM  
3579 9492OUTER SHELL  
7002 9493STRUCTURAL DESIGN  
641 4502 7002 7149

\*SEE ALSO\*--- STRUCTURES, SPACE VEHICLE

SPACE VEHICLE HEAT TRANSFER  
549 632 637 1313 6497 9006POWER PLANTS  
9112 9912RADIATOR  
9006REENTRY  
446 547 1350 2242 3996 3997 5605 5698 5701 6517  
7427 8206 8215 9025 9027 9028 9029 9030 9301 9812SPACE VEHICLE PROPULSION  
3052 3994 4787 6619 8298 8299 9082 9912ASCENT  
626 4848 4849CONTINUOUS  
3098DESCENT  
4850ELECTRIC  
9917IMPULSIVE  
5768OPTIMIZATION  
635 1465PLASMA  
613 1421 3095 3950 7486 9085 9883\*SEE ALSO\*--- ORBIT MECHANICS -- PROPELLANTS --  
SPACE NAVIGATION AND GUIDANCESPACE VEHICLE STABILIZATION  
3999 6616 6797 9114 9305 9907 9909 9910ATTITUDE-STABILIZATION  
3990 3993 4853 5007 5770 5772 5778 6816 7511 8294  
8296 8297 8619 9109 9110 9111GRAVITATIONAL  
45 3999 6613 7513 8302 8619GYROSCOPIC  
3992 6615 6816 6968 8296 9111 9114SOLAR PRESSURE  
629 7516STABILITY THEORY  
2066 6968 7506 7519 8295\*SEE ALSO\*--- ORBIT MECHANICS -- PERFORMANCE,  
SPACECRAFT -- SPACE NAVIGATION AND GUIDANCE --  
SPACE POWER

SPALLATION--- \*SEE\* FRACTURE, SPALLATION

## SPECIAL MATHEMATICAL FUNCTIONS

7 1550 1627 2475 2476 2480 3267 3284 3298 3299  
3300 4149 4997 5891 5900 5912 5913 7633 7634 7635  
7643 7646 7650 8430 8440 8459 9220 9231 9232 9233

## SPECIAL MATHEMATICAL FUNCTIONS \*CONTINUED\*

9235 9248 9249 9250 9251 9252 9253 9254 9259

SPECIFIC HEAT--- \*SEE\* THERMOPHYSICAL PROPERTIES,  
SPECIFIC HEAT

## SPECTRAL ANALYSIS

1548 3209 3213 4069 4076 4930 4948 6644 6696 6701  
6714 7433 7577 8353 8364 9175 9177 9179 9180 9182  
9970 9977

\*SEE ALSO\*--- SPECTROSCOPY

## SPECTROSCOPY

446 3824 3825 9891

\*SEE ALSO\*--- SPECTRAL ANALYSIS

SPILLWAYS--- \*SEE\* HYDRAULIC STRUCTURES, SPILLWAYS

SPINNING--- \*SEE\* AIRPLANE, SPIN RECOVERY

## SPLINES

4088

## SPRAYS

444 563 702 703 2402 3018 3167 3169 3170 4041  
4042 4043 4044 4862 5839 6313 7217 9015 9957 9958

## SPRINGS

1141 2818 4243 5216 5427 5428 5429 6169 6277 6278  
6279 6280 6281 7098 7990 7991 9610

\*SEE ALSO\*--- VIBRATION, SPRINGS

STABILITY--- \*SEE\* UNDER MODIFIER

## STABILITY THEORY

981 986 1013 1461 1657 1690 1693 2066 2174 2503  
2507 2509 2552 2558 2711 2941 3344 4166 4648 5010  
5012 5471 5486 5498 5605 5973 6333 6789 6814 6819  
7190 7215 7224 7226 7227 7230 7345 7662 7679 7800  
8041 8137 8295 8296 8302 8497 8603 8869 8871 8872  
8876 8941 9730  
JUNE FEATURE ARTICLE

\*SEE ALSO\*--- CONTROL STABILITY

STABILIZATION OF MOTION--- \*SEE\* VIBRATION, STABILITY

STABILIZATION OF SOILS--- \*SEE\* SOIL MECHANICS,  
STABILIZATION

## STALLING

BLADES  
2147 7322 8160STATICALLY INDETERMINATE STRUCTURES--- \*SEE\*  
STRUCTURES, STATICALLY INDETERMINATE

## STATICS

5501 5963 8489 8752 8753

## STATISTICAL CONTROL THEORY

802 803 1661 1682 3323 5768 5934 5935 8464 8472  
9238 9239 9277 9311

## DECISION THEORY

52 6808 9244 9303

## DESIGN

3327 9243 9244

## ESTIMATION

14 793 800 801 2520 2708 3308 3950 9466 9468

## FILTERING

51 52 818 1463 1643 1663 4185 6781 6808 7333  
7654 8635 9297

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## STATISTICAL CONTROL THEORY \*CONTINUED\*

## LINEARIZATION

1651 3316 3325 4180 5019 5020 5037 5936 5953 6795  
8467

## NOISE

48 1681 3322 6981 8471 8635 9238

## PREDICTION

2708 9242 9468

## STATISTICAL OPTIMIZATION

1667 1684 9238

## STATISTICAL DESIGN

1911 4939 5395 7941 9519 9592

## STATISTICAL MECHANICS

2454 2611 2959 3290 4695 6623 7391 9077 9767 9934

## STATISTICAL THEORY

16 18 21 387 777 784 821 1534 2594 3290  
4621 4999 5125 5906 5907 6766 7646 8697\*SEE ALSO\*--- DATA ANALYSIS -- ERROR --  
INFORMATION THEORY -- OPERATIONS RESEARCH --  
RELIABILITY -- STATISTICAL CONTROL THEORY --  
STATISTICAL DESIGN -- STOCHASTIC PROCESSESSTATISTICAL THERMODYNAMICS--- \*SEE\* THERMODYNAMICS,  
STATISTICAL

## STEAM

567 1380 2051 2201 2295 2957 4707 4709 4710 4712  
5634 5636 6471 7394 7395 7470 9765 9821

## TABLES

2199 3845 5631 9770

## STEAM POWER PLANTS--- \*SEE\* POWER PLANTS, STEAM

## STEEL

296 298 887 1083 1091 1092 1098 1100 1106 1748  
1909 1915 1917 1934 1937 1938 1939 2753 2757 2760  
2761 2762 2781 2799 3376 3377 3543 3547 3557 3558  
4382 4400 4401 4403 4414 4418 4419 4442 4446 5316  
5319 5321 5327 5338 5342 5366 5538 5826 6014 6190  
6203 6232 7057 7073 7095 7112 7732 7736 7904 7908  
7909 7911 7914 7915 7944 8009 8703 8779 8784 9523  
9530 9538 9539

## ALLOYS

116 276 1740 2592 4967 5117 5868 7601 8702

## MARAGING

9536

## STILLING BASIN--- \*SEE\* SURGE TANKS

## STOCHASTIC PROCESSES

17 18 716 776 778 783 784 799 1625 1683  
1684 2471 2472 2816 2517 2518 3096 3333 3517 4151  
4152 4153 4179 4996 5021 5046 5047 5644 5905 5927  
5956 5967 6618 6637 6766 6767 7350 7614 7665 7666  
8434 8436 8451 9240 9279 9309 9466 9468 9469\*SEE ALSO\*--- OPTIMAL AUTOMATIC CONTROL,  
STOCHASTIC -- STATISTICAL CONTROL THEORY

## STOL

3977 3979 6597 7332 7498 7500 9097 9098 9099 9100  
9895\*SEE ALSO\*--- GROUND EFFECT MACHINES -- HYDROFOILS,  
CRAFT -- VTOL

## STRAIN HARDENING

135 136 139 142 384 885 887 1121 1727 1739  
2603 2605 2610 3367 4494 5280 5371 9356 9515

## STRAIN MEASUREMENT--- \*SEE\* EXPERIMENTAL MECHANICS

## STREAMS

## FLOOD FLOW

3670 8140 9170 9631

## NATURAL

4540 4553 8034 8035 8829 8844 9628 9631 9637

## STRESS AND STRAIN

312 313 316 1112 1964 3839 7058 8357 9601

## ANALYSIS

139 140 889 1069 1108 1740 1746 2608 4408 5116  
5134 5300 5356 7732 7736 7869 7878 8688 8694 8696  
8739

## ANALYSIS TECHNIQUES, ELECTRICAL

4368 7021 7046 8702 9545

## ANALYSIS TECHNIQUES, MECHANICAL

1743 1744 6107 6166 6170 7942

## ANALYSIS TECHNIQUES, OPTICAL

2775 3263 4388 6165 6207 7740 7887 8689 8690 8751  
9592 9593 9595

## CONCENTRATION

99 100 102 103 104 299 669 842 851 852  
853 854 855 889 1712 1713 1774 1786 2385 2386  
2570 2571 2772 2773 2774 3149 3158 4213 4220 4221  
4223 4437 5063 5064 5065 5067 5070 5071 5072 5073  
5178 5326 5807 5814 5990 6158 6213 6830 6840 6842  
6843 6845 6846 7046 7048 7049 7056 7076 7704 7705  
7706 7878 7897 8005 8006 8518 8519 8689 8690 8722  
9337 9554 9943

## CONTACT

750 6014 7724 7890 9503

## RELAXATION

117 120 392 894 2586 2594 3368 3370 3371 3385  
4242 4243 4463 6235 7741 7941 8539 9351

## RESIDUAL

311 1107 1907 1966 2781 4427 4451 5316 5317 6179  
6745 7044 7904 7931 8688 8702 8703 8741 9553 9623\*SEE ALSO\*--- COATINGS -- EXPERIMENTAL MECHANICS --  
HOLOGRAPHY -- PHOTOELASTICITY --  
PHOTOPLASTICITY -- THERMOELASTICITY --  
THERMOPLASTICITY

## STRESS CORROSION

8727 9542

## STRESS CORROSION CRACKING

296 298 2761 2762 2763 3557 3558 4422 5342 5343  
9541

## STRESS RELIEVING

1106 1966

\*SEE ALSO\*--- HEAT TREATMENT

## STRINGS

144 2616 8605 9461

\*SEE ALSO\*--- VIBRATION, CABLES AND STRINGS

## STRUCTURES

124 143 901 902 1697 2559 2806 3584 3621 4209  
5184 6260 7140 7960 7981 8576 8790 8791 9582

## AIRPLANE

938 1090 2017 2217 2618 3592 3765 5325 5339 5421  
5539 6200 6202 8788 9832

## ANALYSIS

343 346 347 351 353 360 1002 1128 1128 1883  
1973 1974 1975 1999 2014 2811 3585 3586 3604 4209

STRUCTURES \*CONTINUED\*  
ANALYSIS \*CONTINUED\*

4212 4466 4471 4481 4498 9221 9375 9376 9377 9378  
5382 5387 5392 5394 5395 5397 5398 5399 5402 5405  
5407 6250 6257 7104 7109 7131 7132 7615 7952 7953  
7975 7976 8752 8753 8785 8761 8773 8780 8789 9368  
9571 9574 9589 9594 9960

## BLAST RESISTANT

4591 5346 8314 8316 8778

## BUILDINGS

361 363 364 2012 2214 2796 2816 3588 3619 3624  
4435 5387 5406 6266 6267 6273 7983 8792 9601 9602  
9604 9605

## CABLE SUPPORTED

320 365 1982 3591 3608 4473

## COLLAPSE

129 1002

## COMPOSITE

2211 2217 2218 4489 4495 5184

## CONTAINMENT

2006 2211 5412 6264 7135 9596 9960

## CREEP

119 874 875 1976 2591 4243 6002 6854 6858 7023

## CUTOUTS

2800 3618

## DESIGN

13 321 322 2456 3293 4477 4483 4484 5383 5415  
5416 8772 8779 8781 8793 9590

## DESIGN, EARTHQUAKE RESISTANT

3191 4503

## DESIGN, LIMIT

325 326 327 328 329 335 1115 1126 1130 2784  
2787 3617 4469 4486 4496 5381 6247 6248 6259 7110  
7111 7112 7113 7134 7958 7968 8533 8786 8787 9575  
9584

## DESIGN, MINIMUM WEIGHT

333 354 1116 1981 1995 3606 4472 5385

## DESIGN, OPTIMUM

330 331 332 334 1727 1980 1982 1992 2785 2788  
2789 3268 3508 3589 3591 4473 5384 5386 5396 5403  
7959 8533 9576

## EARTHQUAKE EFFECTS

1842 2018 2019 3622 3623 3624 3625 3626 3627 3628  
4503 6273 7150 7987 9604 9605

## FILAMENTARY

903

## FINITE ELEMENT METHODS

1011 2782 3620 5218 5221 5376 5377 5378 6002 6243  
6967 7105 7108 7122 7954 7956 7957 7979 8758 8759  
8769 8782 9436 9565 9566 9567

## INFLATABLE

119 2341

## LOADS

364 1978 2013 2473 3605 4500 7984 8314 8737 8740  
9591 9592 9597 10028

## MATRIX METHODS

212 323 324 979 990 1011 2694 2783 4467 4468  
4482 5206 5217 5218 5221 5379 6002 6090 6096 6244  
6245 6246 6267 6959 6960 7106 7955 8007 8754 8756  
8757 9436 9564

## MODELS

351 365 2000 2805 3631 5233 5346 6152 7141 7152

STRUCTURES \*CONTINUED\*  
MODELS \*CONTINUED\*

9932

## NONDESTRUCTIVE TESTING

9152

## NONLINEAR ANALYSIS

903 1129 4482 5375

## OFF-SHORE

6268 7027

## PRESTRESSED

365 2799 2813 3591 5395 6263 7126 7130 7135 8774  
8775

## REACTORS

7135 9596

## RELIABILITY ANALYSIS

1977 8763

## ROOFS

320 365 2813 7144 7145 7146

## SAFETY

3583 3590 3607 3625 3626 4464 4480 5381 6141 6268  
8794 9524 9527 9583 9593

## SHAKEDOWN

3587 3615 4494 8762 9572

## SHIP

738 2695 2774 6214 7148 8795 9533 9603

## SMOKE STACKS

2013 5233 6081 6265 8616

## SPACE VEHICLE

4334 7103 9493

## STATICALLY INDETERMINATE

880 7101 9573

## TESTING

345 1994 1997 2786 4465 4502 5390 5391 7133 8760  
8764 9531 9601

## THERMAL STRESSES

2016 8784

\*SEE ALSO\*--- ARCHES AND VAULTS -- BRIDGES --  
BUCKLING, STRUCTURES -- CONCRETE AND MASONRY --  
CRANES -- CRAWLERS -- CULVERTS -- DAMS -- DOCKS --  
DYNAMICS, STRUCTURES -- EXPLOSION, EFFECTS ON  
STRUCTURES -- FATIGUE, STRUCTURES --  
FOUNDATIONS -- FRAMES AND BENTS -- GRILLAGES --  
HIGHWAYS AND RUNWAYS -- HYDRAULIC STRUCTURES --  
IMPACT, STRUCTURES -- JOINTS, WELDED -- LIMIT  
DESIGN AND ANALYSIS -- LOADS -- PIERS -- PILES --  
PIPING SYSTEMS -- PRESTRESSED CONCRETE --  
REINFORCED CONCRETE -- SANDWICH CONSTRUCTION --  
SEISMOLOGY -- SPACE VEHICLE DESIGN -- TANKS --  
THERMOELASTICITY, STRUCTURES -- TORSION,  
STRUCTURES -- TOWERS -- TRUSSES -- TUNNELS --  
VIBRATION, STRUCTURES -- WALLS -- WOOD STRUCTURES

## STRUTS--- \*SEE\* COLUMNS

## SUBLIMATION

3017 6510

\*SEE ALSO\*--- LATENT HEAT, SUBLIMATION

## SUBMARINES

9195

## SUBMERGED BODIES

1560 1834 2842 4545 5859 8380 9188 9189

## SUBMERGED BODIES \*CONTINUED\*

\*SEE ALSO\*--- BODIES, COMPRESSIBLE FLOW PAST --  
BODIES, INCOMPRESSIBLE FLOW PAST -- HYDRAULICS,  
DYNAMICS OF LIQUIDS

SUBSONIC FLOW--- \*SEE\* FLOW, COMPRESSIBLE, SUBSONIC

## SUBOPTIMAL CONTROL

62 626 1672 1675 4200 5050 5766 7689 8293 9305  
9307

SUCTION--- \*SEE\* BOUNDARY LAYER, CONTROL

## SUPERPLASTICS

1727 3521 8540

SUPERSONIC FLOW--- \*SEE\* FLOW, COMPRESSIBLE,  
SUPERSONIC

SURFACE ROUGHNESS--- \*SEE\* FRICTION

## SURFACE TENSION

423 489 495 1269 2168 2863 2941 3775 3784 3793  
3862 5451 5475 5602 6433 7336 7341 8137 8194 8934  
8983 9016 9648 9723 9730 9804

SURGE TANKS--- \*SEE\* TANKS, SURGE

## SUSPENSIONS

385 387 391 701 1155 1156 1513 1515 1518 1520  
2077 2397 2398 3020 3167 3171 3176 3472 4048 4530  
4911 4913 4914 5834 6304 6322 6665 6666 6667 6668  
6669 6670 6672 6673 7414 8339 9956

\*SEE ALSO\*--- AEROSOLS -- CENTRIFUGATION --  
COAGULATION -- DISPERSION -- FLOCCULATION --  
FLOTATION -- SEDIMENTATION -- SEDIMENT TRANSPORT

## SWIMMING PROPULSION

8835

## SWIRL

414 1177 2106 2837 3697 4559 5473 6313 6314 6435  
7231 7253 8086 8090 8848 8864 8890

SYSTEMS ENGINEERING--- \*SEE\* AUTOMATIC CONTROL,  
PROCESSES

## T

## TABLES

2476 3298 3300 5912 5913 7581 7634 9248 9249 9250  
9251 9254

TAKEOFF--- \*SEE\* LANDING AND TAKEOFF

## TANKS

1371 3897 6321 6323

## STORAGE

2980 4485 5347 6961 7136 7423 7981 8796 9595

## SURGE

500 501 3788 4650

## TEMPERATURE

5627 5628 5639 6471 7401

## MEASUREMENT, ABSOLUTE

1302 1309 2207 3813 4788 7466 8187 9086 9670

## MEASUREMENT, INSTRUMENTS

446 532 534 1352 2248 2283 2969 2970 2971 3846  
3847 4717 4718 4719 4720 5941 6479 6480 6517 7009  
7399 7400 7402 8185 8351 8984 8985

## CONTROL

5941

## TEMPERATURE \*CONTINUED\*

## TRANSFORMATION

5635 6477

\*SEE ALSO\*--- COATINGS -- FLAME, TEMPERATURE  
MEASUREMENT -- HEAT TRANSFER -- THERMOCOUPLES

TENSOR METHODS--- \*SEE\* VECTOR AND TENSOR METHODS

## TESTING

345 360 1383 1955 1994 1997 1998 2034 2037 2786  
3578 3579 3629 4434 4436 4439 4440 4441 4445 4459  
4461 4463 4465 4499 4502 5359 5374 5390 5391 5404  
6237 7085 7100 7126 7133 7936 7951 7964 7970 7974  
7986 8721 8760 8793 8813 9050 9510 9525 9526 9580  
9586 9597 9601

\*SEE ALSO\*--- COLUMNS, TESTING -- CONCRETE AND  
MASONRY, TESTING -- CREEP, TESTING -- DYNAMICS,  
TESTING -- FATIGUE, TESTING -- FLIGHT TESTING --  
FRACTURE TESTING -- FRAMES AND BENTS, TESTING --  
HARDNESS, TEST TECHNIQUES -- HIGH PRESSURE,  
TESTING -- IMPACT -- JOINTS AND JOINING PROCESSES,  
TESTING -- MATERIALS TEST TECHNIQUES -- REINFORCED  
CONCRETE, TESTS AND TESTING -- ROCK MECHANICS,  
TESTING METHODS -- SHOCK, TESTING -- SOIL  
MECHANICS, TESTING METHODS -- STRUCTURES,  
TESTING -- ULTRASONICS, TESTING -- VIBRATION,  
TESTING

## TEXTILES

123

THERMAL BUCKLING--- \*SEE\* BUCKLING, THERMAL

## THERMOCOUPLES

533 1352 2205 2206 2248 5309

## THERMODYNAMIC PROCESSES

8882

## ADIABATIC

2103 2107 3711 3845

## ISENTROPIC

2088

## ISOBARIC

9506

## ISOTHERMAL

6856

## THERMODYNAMICS

522 1305 1306 2197 2198 2954 2955 2958 2964 2967  
3840 4695 5626 5637 6462 7381 7382 7392 7398 8981  
9762 9763 9764 9766

## CRITICAL PHENOMENA

561 1322 2202 2997 2998 5633 6505 7390 7420

## CYCLES, ENGINES, TURBINES, ROCKETS

4769 5610 5729

## CYCLES, POWER PLANT

1307 4702 5691 6466 8957

## IRREVERSIBLE

384 2194 2196 2609 3843 4699 4701 5094 5119 6001  
6461 7384

## NONEQUILIBRIUM

523 1310 1391 2194 2243 2244 2870 3020 4706 6465  
7490

## STATISTICAL

2195 4697 6463

## THERMODYNAMIC FUNCTIONS

1287 2102 2267 3893 4707 5628 8178

## THERMODYNAMICS \*CONTINUED\*

\*SEE ALSO\*--- ADSORPTION -- AEROTHERMOCHEMISTRY --  
 AEROTHERMODYNAMICS -- BOILERS -- CALORIMETER --  
 CHEMICAL, THERMODYNAMICS -- COMPRESSORS --  
 DIFFUSION, THERMAL -- DISSOCIATION -- ENERGY  
 CONVERSION, DIRECT -- ENGINES -- FLAME --  
 FREEZING -- HEAT TRANSFER -- KINETIC THEORY --  
 METEOROLOGY, THERMODYNAMICS -- MIXTURES -- PHASE  
 CHANGES -- POWER PLANTS -- REFRIGERATION,  
 AIRCONDITIONING -- THERMOPHYSICAL  
 PROPERTIES, EQUATIONS OF STATE -- TURBINES AND  
 TURBOMACHINERY -- VORTEX TUBE

## THERMOELASTICITY

1948 2389 2965 4133 4905 5817 7410 7548 8320 8326  
 9150

## ANISOTROPIC AND NONHOMOGENEOUS MEDIA

683 862 3149 3152 5830 6661 7550 7556 8331 8333  
 9144 9146 9151

## BEAMS

677 3150 4904

## GENERAL THEORY

383 384 671 673 674 837 2387 3154 3155 3162  
 4032 4033 4034 4894 4899 5810 5815 5818 5820 5821  
 6653 6655 6656 6658 7546 7547 7553 8324

## NONLINEAR

5808 5812 5819 8322

## PLATES

208 670 1502 1508 1509 2392 3153 4893 4895 4897  
 4898 9944 9946

## SHAFTS

674 1020 1503 1505 5807 7545

## SHELLS

678 690 1510 1787 2386 2394 5174 9145

## STRUCTURES

2385 3161 4035 4892 5809 6651 6654 7552 8325 8328  
 8580 9339 9947

## THREE-DIMENSIONAL

669 3158 4896 4897 9943

## TWO-DIMENSIONAL

672 2390 5814 7549 9144

## TRANSIENT EFFECTS

675 676 679 681 686 687 688 689 696 1020  
 1505 1506 1507 1508 2391 2392 2393 2394 3156 3157  
 3160 3163 4903 4907 5806 5816 5828 5829 6628 6657  
 7547 7550 7551 7553 7554 8334 9948

## TUBES

1504 1511 2388 2391 3151 3156 3159 6652 6662 8327  
 9945

## THERMOELECTRIC PHENOMENA

7386

## POWER GENERATION

1768 4704

## PROPERTIES

4715 5314 5827

## REFRIGERATION

6467 8183

\*SEE ALSO\*--- THERMOCOUPLES

## THERMOMAGNETIC PHENOMENA

7386

## THERMOPHYSICAL PROPERTIES

449 1219 1311 1312 1341 1403 2088 2098 2110 2199  
 2200 2203 2870 2886 2962 2972 3240 3701 3843 3844  
 4590 4602 4707 5501 5508 6473 7009 7019 7249 7279  
 7388 7389 8177 8179 8191 8978 9664 9768 9770 9776  
 9780 9781

## ACCOMMODATION COEFFICIENT

5669 5689

## DIFFUSION COEFFICIENT

8180

## ENTHALPY

5628 6475 6481 8176 8229 9831

## EQUATIONS OF STATE

384 2957 2958 4709 4711 4714 5629 5632 6460 6472  
 6474 7390 7867 8173 8174 8176 9769 9777 9779

## JOULE-THOMSON COEFFICIENT

4708 9765

## RADIATIVE

2244 2990 5672 5675 5676 5679 5680 6501 8214 9005  
 9027 9818

## SPECIFIC HEAT

2204 2276 2961 5633 5634 6459 7395 7397 8181

## THERMAL CONDUCTIVITY

529 537 538 1314 1315 1349 2201 2210 2221 2277  
 2968 3851 3852 3853 3855 3866 4715 4727 4753 5640  
 5646 5647 5657 5827 6483 6485 7393 7404 7405 7452  
 8228 8990 9022 9024 9026 9772 9773

## THERMAL CONTACT RESISTANCE

3858 3867 5650 7411 8990

## THERMAL DIFFUSION COEFFICIENT

1385

## THERMAL DIFFUSIVITY

535 536 2274 2992 5647 7404 7405

## THERMAL EXPANSION

4060 7397

## THERMAL RADIATIVE

4716 7466

## VAPOR PRESSURE

4713 5636

## VISCOSITY

448 3866 4712 4713 5635 5657 8973 8980 9037 9775  
 9778

\*SEE ALSO\*--- LATENT HEAT

## THERMOPLASTICITY

1727 1733 2775 5104 5822

## THIN FILMS

## FLOW

6295 6299

## THRUST

4852

## NOZZLE

1217 3718 6361 7251 8886

## THRUSTER

2104

## TIDES

718 2840 3206 3211 3670 4063 5853 8359 8363 8367  
 9174 9628 9733

## TIMBER CONNECTIONS--- \*SEE\* JOINTS AND JOINING PROCESSES

## TIME DELAY SYSTEMS

39 62 1645 1679 1680 2531 3320 3338 5946 6788 9273

## TIME SHARING TECHNIQUES

5025

## AUTOMATIC CONTROL

2521

## DIGITAL COMPUTERS

56

## TIRES

215 2826 4205 4206 4365 5865 6965 7593 7936 9200 9479

## TITANIUM

1743 1907 3592 4422 9342

## TOOLS

1073 1320 2687 4970 7051 7052 7885 7886 7894

## CARBIDES

1076 3531 4382 4969

## HARDNESS

1075 1915 6174 6178 7895

## LIFE

1068 1076 1909 1910 1911 3524 3531 3532 3533 3536 4382 4383 5869 6173 6176 7895 8699 8700

## STRENGTH

5313 6175 7053 7890 7895 7896 8701

\*SEE ALSO--- VIBRATION, TOOLS

## TOPOLOGICAL TECHNIQUES

789 3310 8414 8439 8451 8458 9245

## TORSION

29 108 124 1698 1989 2577 4226 4908 7090 8521

## ANISOTROPIC

4227

## BEAMS

337 886 909 910 1122 1718 1719 1744 1984 2601 2617 2623 6848 6875 6922 7750 8535 8536 8537

## COMBINED LOADING

128 881 2605 4434 5106 5111 7089

## PLASTIC

107 125 128 881 886 1727 1744 2601 2605 4249 5106 5111 6009 6862 8533 8534 8535 8536 8537

## PLATES

856 5998 6888

## SHAFTS

164 855 864 908 2820 4249 5074 5987 6009 6283 6849 7707 7743 8522 8534 9338

## SHELLS

857 2640 4279 5159 6904 9377

## STRUCTURES

4227

\*SEE ALSO--- MATERIALS, TEST TECHNIQUES, TORSION

## TORQUE CONVERTER

2817 4665 4666 7367

\*SEE ALSO--- FRACTURE, TOUGHNESS

## TOWERS

333 354 2013 3583 4485 4495 5415 6963 9587

## TRACER PHOTOGRAPHY--- \*SEE\* OPTICAL TECHNIQUES, TRACER PHOTOGRAPHY

## TRAFFICABILITY

22 3295 6269 6270 6271 7037 7651

\*SEE ALSO--- CRAWLERS -- HIGHWAYS AND RUNWAYS -- VEHICLES, LAND

## TRAJECTORY--- \*SEE\* UNDER MODIFIER

## TRANSducers AND GAGES

1105 1292 1499 1500 2779 3470 4463 5277 7080 7842 8185 8332 8640 9023 9556

## ACCELEROMETERS

1501 3630 6221

## CAPACITANCE

515 2046 3811 4683

## DISPLACEMENT

1501 3366 4462 5422

## ELECTRIC RESISTANCE

9545 9547 9548

## EXTENSOMETERS

8751

## LOAD

3571 3572 7932 8733 8737 8738

## PRESSURE

1293 1299 3505 4620 6639 6648 7079 7081 7099 8673 9141 9546 9940

## SEMICONDUCTORS

305

## STRAIN

306 307 309 1955 1956 1957 2777 2778 3568 3569 3570 4433 5351 5352 5353 5355 5356 6217 7082 7923 7924 7925 7926 7942 8737

\*SEE ALSO--- ACCELERATION MEASUREMENT -- PIEZOELECTRICS -- THERMOCOUPLES

## TRANSFORMS--- \*SEE\* OPERATIONAL METHODS

## TRANSONIC FLOW--- \*SEE\* FLOW, COMPRESSIBLE, TRANSONIC

## TRANSPORT OF DUST--- \*SEE\* DUST, TRANSPORT

## TRANSPORT PROPERTIES--- \*SEE\* THERMOPHYSICAL PROPERTIES

## TRANSPORTATION--- \*SEE\* UNDER MODIFIER

## TRUSSES

333 345 876 3589 7126 7959 9593

\*SEE ALSO--- FRAMES AND BENTS

## TSUNAMI WAVES--- \*SEE\* GRAVITY WAVES IN LIQUIDS, TSUNAMI

## TUBES--- \*SEE\* PIPES AND TUBES

## TUNNELS

299 352 1899 5587 7048 7049 7878 8688 8689 8690 8782 8783

## TURBINES AND TURBOMACHINERY

579 581 582 805 1283 1284 1383 3040 5237 5451 5610 6439 7353 8146 8147 8148 9851

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## TURBINES AND TURBOMACHINERY \*CONTINUED\*

AXIAL  
506 507 508 1202 4637 6445 8149 8153

BLADE COOLING  
7359 7473 9850

BLADE EROSION  
576 3043 3229 8248

BLADES  
857 1832 1944 3041 3051 4301 4772 5224 5226 7818  
8321 9149

CASCADE OF BLADES, COMPRESSIBLE  
505 506 2947 2950 3795 3796 3975 4662 5612 6441  
7354 7356 7360 8055

CASCADE OF BLADES, INCOMPRESSIBLE  
1277 1280 2176 3799 4658 6440 7355 8160 8952 8953

COOLING  
8150

FLOW CHARACTERISTICS, COMPRESSIBLE  
508 1279 1281 1283 6443 7365 9742

FLOW CHARACTERISTICS, INCOMPRESSIBLE  
1278 2953 4783 4784

GAS  
1284 1486 2175 2822 3913 3922 4751 4782 5729 5730  
5731 7361 7472 7473 8254 8433 9019 9049 9193 9848  
9849

HYDRAULIC  
1286 2522 2953 4661 4663 6442 8148

MIXED  
2734 4769 5723

MODELS  
5722

RADIAL  
1279 4664 6443 7362

ROTORS  
201 216 8254 8608 8609 9445

STEAM  
576 577 578 580 1380 1382 1411 2269 3039 3041  
3042 3043 3044 3045 3913 3914 3915 3916 3922 4662  
4768 4771 4772 4773 5720 5722 5724 5726 6536 6537  
7357 7361 8248 9021 9046

\*SEE ALSO\*--- CAVITATION, TURBINES --  
COMPRESSORS -- FLOW, INTERNAL -- FLUTTER,  
TURBOMACHINES -- HEAT TRANSFER -- VIBRATION,  
BLADES -- VIBRATION, TURBOMACHINERY

TURBOJETS---\*SEE\* JET ENGINES, TURBOJET

TURBOPROPS---\*SEE\* JET ENGINES, TURBOPROPS

TURBULENCE  
729 734 1238 1239 1240 1241 1242 1490 2909 3744  
3754 4067 4614 4621 4759 4934 5561 5571 6397 6400  
6754 7182 7571 8114 8118 8913 8915

ANISOTROPIC  
7312 8916 9693 9700

DIFFUSION  
2896 4626 4940 6399 7295 7319 8121 9700 9982

FREE  
473 474 475 2145 2911 5573 5575 5576 6296 6403  
7314 7315 7428 8113 9696 9697

## TURBULENCE \*CONTINUED\*

FREESTREAM  
540

FRICTION REDUCING ADDITIVES  
2913 5451 6308 7303 8912

HOMOGENEOUS  
1239 2907 8112

ISOTROPIC  
472 2907 2908 3753 6396

MAGNETIC  
601 1418 3936 4801 5736 7317

MEASUREMENTS  
600 1244 1289 2143 2145 2418 2887 2897 2910 2912  
3753 3756 3757 4069 4076 4613 4620 4944 4951 5570  
5575 5580 5857 6296 6390 7316 7317 7321 7480 8113  
8366 8916 9692 9695 9702 9703

MEASUREMENTS IN WATER  
545 1181 1243 2144 2179 2229 4627 5653 6401 6404  
8918 9699

MIXING LENGTH THEORY  
453 2137 2226 2420 2895 3730 4607 4609 4757 5544  
5564 6370 6371 6402 7313 8119 9982

STATISTICAL THEORY  
384 471 472 1237 2138 2139 4069 4072 4625 4944  
6374 6396 6398 6704 8259 8368 8911 9177 9693

TRANSPORT  
477 1240 1243 2897 3207 3755 4625 8917

WALL TURBULENCE  
541 545 2140 2162 2226 2898 2914 4652 5544 5546  
5547 5577 5579 6368 6370 6371 6401 7303 7318 8097  
8122 8123 8901

\*SEE ALSO\*--- ANEMOMETER, HOT-WIRE -- BOUNDARY  
LAYER, TRANSITION -- FLAME, TURBULENT -- HEAT  
TRANSFER, TURBULENT -- METEOROLOGY, TURBULENCE --  
MIXING -- WAKES, TURBULENT

TURNING  
4383 4969 7053 8699

TWISTING OF SHAFTS---\*SEE\* TORSION, SHAFTS

TWO-PHASE FLOW---\*SEE\* UNDER MODIFIER

## U

ULTRASONICS---\*SEE\* NONDESTRUCTIVE TEST TECHNIQUES  
AND INSPECTION, ULTRASONIC

UNSTEADY FLOW  
481 483 510 1413 2049 2146 2180 2888 2889 6338  
8160 8875 8897 8943 8944 9663 9671 9672 9741

COMPRESSIBLE  
441 447 1207 1209 1222 1561 2087 2091 2100 2102  
2103 2106 2107 2115 2875 2878 2883 2887 3698 3707  
3710 3711 3712 3713 3714 3716 3719 3722 3801 4579  
4593 4598 4634 5506 5509 5520 5525 5533 5762 6351  
6352 6355 6363 7241 7261 7263 8066 8071 8075 8083  
8275 8891 8892 8893

INCOMPRESSIBLE  
388 400 487 1151 2084 2190 2916 3221 3690 3794  
3798 3806 4082 4084 4530 4540 4577 4659 4670 5478  
5496 5497 5499 5500 5596 6336 6337 6410 6421 7193  
7219 7229 8051 8053 8124 8132 8833 8853 8874 8890  
9192 9629 9630 9709 9718 9719 9720

## UNSTEADY FLOW \*CONTINUED\*

SUBSONIC  
1247 1299 8922 9713

SUPERSONIC  
8406 8125 8126

\*SEE ALSO\*--- OSCILLATIONS IN FLUIDS

UPWASH AND DOWNWASH--- \*SEE\* WINGS, UPWASH AND  
DOWNWASH

## V

VACUUM TECHNOLOGY  
744 3579 3802 4374 4600 4601 5372 7411 7590 9518

VALVES AND GATES  
404 2062 2703 3677 3805 3887 4776 5460 6453

HYDRAULIC  
59 1163 1167 3675 4547 4548 5452 6315 6436 7285  
8031 9616 9632

MECHANICAL DESIGN  
1411 9616

VAPORIZATION  
2260

\*SEE ALSO\*--- MASS TRANSFER, EVAPORATION

VARIATIONAL METHODS  
3 13 384 774 1252 1463 1678 2352 2468 2469  
3189 3285 3286 3287 3288 3291 3301 4995 5039 5891  
5904 6615 6764 6765 7630 7631 8298

AERODYNAMICS  
2917 3767 6407 6776

AUTOMATIC CONTROL  
64 67 69 815 1680 2539 3340 4198 5945 5946  
5955 5958 7685

ELASTICITY  
188 929 1766 1820 2576 2602 4467 5230 7410 7844  
9370

FLUID MECHANICS  
1387 4527 4531 4721 7421 9181

HEAT TRANSFER  
1387 2213 2976 3767 4721 5647 5654 5665 5667 7409  
7421 8201 8204 8995 9791

PARTICLE MOTION  
3771 8489 8493

PLASTICITY  
127 133 876 882 886 1736 2602 5133 6167 7730  
8686

RIGID BODY  
8489

VISCOELASTICITY  
3364 4527 4531 5999 6003 6004 6006 8686

VAULTS--- \*SEE\* ARCHES AND VAULTS

VECTOR AND TENSOR METHODS  
81 383 763 836 837 843 866 880 1616 1699  
1727 1779 2339 2456 2459 3348 3381 3662 4152 8080  
5081 5094 5100 5121 5134 5163 5891 5981 6013 6837  
7703 8489 8501 8580 9280 9270 9313

\*SEE ALSO\*--- MATRIX METHODS

VEHICLES  
7147

AMPHIBIOUS  
740 1057 4085 7038 8960

AUTOMOTIVE  
214 1727 1967 2023 4205 4206 4501 4762 6280 6281  
6282 8621 8794

LAND  
366 1056 1058 2015 2814 2815 2826 3514 4364 5235  
5587 6131 6152 6269 6965 7037

MOTION AND CONTROL  
215 1056 1057 2826 4205 4206 4364 5940 8636

RAILWAY TRAINS  
2016 6083 8620 8622

SEA  
7138 8796

STABILITY  
8621

\*SEE ALSO\*--- AIRPLANE -- CRAWLERS -- GROUND EFFECT  
MACHINES -- IMPACT, VEHICLES -- MARINE  
ENGINEERING -- PERFORMANCE, VEHICLES -- RAILROAD  
SYSTEMS -- SPACE VEHICLES, WITH MODIFIERS --  
SUBMARINES -- TIRES -- VIBRATION, VEHICLES

VELOCITY MEASUREMENT  
511 513 1289 1290 1293 4680 4686 5617 6457 6535  
7248 7372 8963 8964 9126

VIBRATION  
77 177 1015 1016 2669 3436 4132 4288 5216 5873  
6075 6437 6964 6970 7612 7829 8600

ABSORPTION  
5240 5245 6097 7836 7838 8627 8666

AIRPLANES  
213 618 5756 6100 6595 6815 6969 7828 9091 9893  
9894 9901

ALMOST PERIODIC  
3147 9093

ANALYSIS  
79 188 318 618 978 1820 2672 2677 2679 2704  
4471 5380 6244 6245 6818 6936 7849 7861 8602

AUTONOMOUS SYSTEMS  
17

BALANCING  
1138 3640 4517 4519 8002 8806 8809 9615 9618

BEAMS, ELASTIC FOUNDATIONS  
1624 2709 4292 5217 6080 6944 8649

BEAMS, FLEXURAL  
188 196 197 984 985 1005 1006 1829 1851 1862  
2680 2681 2685 2702 3442 3463 3484 4291 4320 5220  
5233 5234 5757 6080 6081 6082 6104 6108 6943 6949  
6961 6963 6982 7806 7808 7809 7810 8003 8607 8616  
8629 8649 8664 9434 9435 9437 9438 9439 9465 9471

BEAMS, LONGITUDINAL  
198 200 984 1851 2685 3267 3477 4164 5220 5240  
6982 6990 7030 7808 7835 8653

BEAMS, SANDWICH  
1007 2701 6094 6977 8606

BEAMS, TORSIONAL  
4289 5219 6078 6082 6946 6950 7808 7841

BEARINGS  
1270 2952 5237 7831

## VIBRATION \*CONTINUED\*

## BLADES

1692 1832 2685 2702 3794 3975 4298 4301 5224 5226  
5238 5795 6630 7818 8286 9092 9445

## BRIDGES

2809 5763 8287

## CABLES AND STRINGS

193 1821 1826 1859 2676 2679 7830 8605 9432

## COMPOSITE MATERIALS

2713 5234 6977

## CRYSTALS

2700 2714 3494 6113 6999 8662 9485

## CURVED BARS

1000 4290 6104 7807

## DAMPING

220 1005 1006 1007 1855 2364 2670 2674 2675 2676  
2701 2702 3462 3472 3473 3474 4314 4316 4317 4318  
5127 5239 5240 5241 5242 5244 5245 5247 5258 5763  
6076 6094 6095 6861 6973 6974 6975 6976 6977 6978  
6979 6980 7524 7525 7526 7834 7837 8627 8628 8629  
8631 8632 8633 8666 9096 9428 9465 9896

## ELECTROMECHANICAL

224 225 4314 5209 5245 6942 6953 6972 8633 8639

## ELECTROSTRICTION

7540

## ENGINES

2695 2697 6630 9464

## FINITE AMPLITUDE

989 2676 4284 6942 9431 9439

## FLUID

502 503 2173 3787 6676 6961 7618 8023 8340

## FOUNDATIONS

251 992 3519 6154 6958 6962 6979 6980 7823 7838  
8617 8618 8670 9455

## FREQUENCIES, BEAMS

194 1828 1829 2680 3438 4289 4309 5223 6082 6945  
7807 8607 9471

## FREQUENCIES, SHELLS AND PLATES

1835 1836 1843 1845 2686 2688 2689 2690 2691 2692  
3450 3452 3453 3455 4299 5228 6953 7815 7816 8613  
8615 9443

## GEARS

2697 3124

## GRILLAGES

1833 2694

## HELICOPTERS

222 3123 9092

## HUMAN

2445

## IMPEDANCE METHODS

658 1001 3478 7805 8624

## IMPULSIVE LOADING

1004 1047 1823 1862 2673 2681 2722 3473 4285 5213  
5243 7834 7861 8626 8628 8630 8632 8651 8664 8665  
9435 9438 9490

## ISOLATION

222 330 4523 5243 5244 6283 6978 6979 6980 7838  
8633

## VIBRATION \*CONTINUED\*

## LUMPED SYSTEMS

197 237 1003 5218 5221 5224 5226 6084 7827 9422  
9435 9456

## MACHINES

375 1854 2695 2696 2697 2703 2712 3467 3468 3474  
3649 4310 4311 4318 5291 5297 6083 6092 6093 6629  
6948 6971 6972 6979 6980 7830 7831 7832 7833 8618  
8623 8624 8625 8630 8633 8638 9462 9463 9464

## MAGNETOSTRICTION

984 4314 9141

## MEASUREMENTS AND INSTRUMENTATION

200 221 223 224 225 1499 1501 6983 7842 8492

## MEMBRANE

1450 1453 1825 1830 3973 6079 6088

## MISSILES AND ROCKETS

1003 1004 3764 6101 6966 6967 6968 7826 7827 8619  
9458 9459 9460

## MODES

2684 5762 6595

## MOVING LOADS

8623

## MULTIPLE DEGREE OF FREEDOM SYSTEMS

987 1474 1695 1854 1857 2675 2710 2732 3437 3467  
5206 5214 5215 5246 5247 5759 5762 5969 6076 6084  
6100 6935 6938 6939 6948 6959 6960 7826 7840 7861  
8626 8630 8631 9423 9426 9470

## NONLINEAR

198 620 982 985 987 1695 1821 1824 1839 1851  
1854 1858 2462 2671 2674 2677 2678 2732 4142 4284  
4287 5207 5208 5210 5215 5247 6088 6818 6937 6938  
6939 6940 6941 6943 7624 7799 7800 7801 7802 7803  
7804 7805 7811 8144 8604 8632 8638 9090 9429 9430  
9431 9439 9462

## NONLINEAR, FORCED

191 1004 1822 2675 2681 3315 3441 4285 5214 5236  
6077 6982 7809 8602 9424 9426 9427

## NONLINEAR, FREE

79 996 3439 3440 3442 4286 9428

## ORTHOTROPIC STRUCTURES

204 989 1035 1841 5232 6086 8610 8614 9449 9451  
9452 9453

## PARAMETRIC

1858 3476 3477

## PENDULUMS

31 79 191 1695 2547 2554 2671 3345 3372 4316  
5211 8144 8491 8492 9472

## PIEZOELECTRIC DEVICES

221 3470 4313 5277 9482

## PLATES

203 204 205 206 207 208 209 644 988 989  
990 991 992 1452 1834 1835 1836 1837 1838 1835  
1874 2330 2678 2683 2684 3449 3450 3452 3453 3454  
3478 3793 4297 4299 4304 4313 4652 5225 5227 5285  
5606 6085 6086 6103 6108 6950 6952 6953 6954 6955  
7525 7626 7815 7816 7817 7819 8610 8611 8612 8634  
8665 9431 9441 9442 9443 9444 9446 9446 9473 9896  
9898 9925

## PLATES ON ELASTIC FOUNDATIONS

999 3451 6958 8651

## PLATES, SANDWICH

993 2729 3446 4300 4306 5228 5239 6596 8288 8628

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## VIBRATION \*CONTINUED\*

PLATES, STIFFENED  
202 2332 3478 6087

PROPELLERS  
2695 3222 9998

RANDOM  
1008 1009 1010 1011 1632 2680 2707 2709 2710 3475  
4082 4291 4302 4307 4319 5207 5246 5606 5791 6098  
6099 6100 6103 6981 7839 7840 7841 8634 8635 8636  
8637 9467 9469 9470

RESONANCE  
1474 1850 1858 1859 2364 2675 3477 5212 5268 6861  
7531 7826 9430

RINGS  
207 1827 4303 8601 8665 8778 9444

ROTATING DISKS  
1473 3447 4297 4311 6088 6629 6951 7814

ROTORS  
201 216 222 1692 3123 3445 3465 3466 3467 5238  
6289 6947 6948 6949 6974 8608 8609 9092 9440 9445

SELF EXCITED  
618 620 2333 3476 3974 3976 5210 5247 5248 5759  
5761 5762 6816 6972 8143 8284 8285 8653 9090 9095  
9471 9893 9894 9896 9897 9899

SHAFTS  
1831 2695 3438 3443 3444 3474 4295 4296 5222 5223  
5875 6083 6084 6947 6949 7811 7812 7813 8629 9440

SHELLS  
1843 1845 2683 2722 3457 5229 5761 6089 9431 9479

SHELLS, CONICAL  
994 1014 3460 6956 8614 9094 9449 9451

SHELLS, CYLINDRICAL  
196 210 302 303 995 996 997 998 1014 1849  
1866 2686 2691 2692 3456 3458 3459 3789 4302 4303  
4304 4305 4649 5231 5760 6103 7352 7821 7822 8613  
8615 8948 9093 9433 9446 9447 9448 9452 9453 9454  
9899

SHELLS, SANDWICH  
1846 1866 3458 5232 5760 7822 8615 9448 9449 9450  
9453

SHELLS, SPHERICAL  
502 503 1839 1841 1846 1847 1848 2173 2690 2943  
3455 3459 4305 6942 6957 7524 8948

SHELLS, STIFFENED  
994 997 998 1847 5231 7820 7821 8613 9094 9446  
9447 9450 9451

SHIP HULLS  
3464 4308 4869 6091 7824 7825 9457

SINGLE DEGREE OF FREEDOM SYSTEMS  
1818 1822 2670 2698 3347 3440 3441 3473 3475 4285  
4286 4312 4317 5212 5213 5236 5243 5244 6077 6937  
6983 7803 7804 7839 8604 8632 8636 9096 9424 9427  
9428

SOIL  
4312 7823 9455 9494

SOLIDS IMMERSED IN A FLUID  
1499 2333 3454 3687 3688 3976 5222 5606 6719 7806  
7821

SPRINGS  
976 977

## VIBRATION \*CONTINUED\*

STABILITY  
976 977 982 987 1002 1013 1693 1696 1818 1823  
1830 1831 1857 2698 2712 3444 3457 3466 3476 3974  
4296 4322 5215 5222 5241 5248 5759 6083 6092 6289  
6814 6817 6941 6951 6968 7799 7800 7811 7813 7832  
7833 8603 8625 8638 8639 9423 9472 9473 9638

STRUCTURES  
195 212 1000 1001 1011 1890 2679 2693 2803 3268  
4307 5217 5218 5221 5233 5346 5762 5791 6084 6090  
6096 6108 6945 6959 6960 6961 6968 6973 7814 7817  
7807 7840 7843 8607 8648 8653 9433 9434 9436 9456  
9459 9460 9467

STRUCTURES, BRIDGES  
1009 3463 3612 5411 5763

STRUCTURES, BUILDINGS  
2019 2816 3461 3622 3623 3624 3625 3627 3628 6273  
7528 7987 8314 9604 9605

STRUCTURES, ELASTIC FOUNDATIONS  
229 999 2698 3293 8616 8617

TESTING  
995 1735 1837 1859 1961 2673 2684 2693 2696 2714  
3443 3461 3468 4298 4299 4313 4322 4441 6099 6101  
6969 6973 6976 7812 7826 7974 8601 8639 8641 9474  
9901

TOOLS  
1852 1853 2696 2699 3468 4310 4311 4382 6092 6093  
6172 6174 6971 7051 7053 7833 7896 8624 8701

TORSIONAL  
231 992 3438 4316 5757 5763 6283 6972 8492

TRANSIENT LOADING  
187 217 2673 2712 3437 3451 3458 4291 4305 6108  
6956 6958 9093

TURBOMACHINERY  
206 1486 3975 5237 5238 6442 6630 8286

VEHICLES  
214 3472 5235 6965 8620 8621 8622 8636 9479 9740

VISCOELASTIC  
1007 2701 3462 3477 5222 5234 5239 6086 6094 6104  
7817 7835 8606 8627 8628 9425 9435 9441 9926

\*SEE ALSO--- ACOUSTICS -- AUTOMATIC CONTROL --  
DAMPING CAPACITY OF MATERIALS -- FLUTTER --  
IMPACT -- IMPEDANCE METHODS -- SHOCK WAVES IN  
SOLIDS -- VIRTUAL MASS -- WAVES

VIRTUAL MASS  
502 503 2173 2860 7352 8145 8853 9735 9739

VIRTUAL WORK METHODS  
131 876 3647 4379 5963

VISCOELASTIC WAVES--- \*SEE\* WAVES, VISCOELASTIC

VISCOELASTICITY  
124 384 680 1727 2967 4132 4133 6854 7934

CONSTITUTIVE EQUATIONS  
388 392 869 870 872 1242 1734 2585 2586 2587  
2588 2595 3364 3365 3366 3369 3371 5093 5094 5100  
6003 6006 6300 6856 6857 7716 7835 8822 9344 9345  
9351

DYNAMIC PROPERTIES  
221 871 872 1731 2861 4244 5095 5999 7041 7716  
9345

EXPERIMENTS  
663 1187 1376 1735 2585 2587 2588 2835 3365 3366  
3372 5096 6000 6296 6857 7076 7720

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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## VISCOELASTICITY •CONTINUED•

## FLOW

388 427 2039 2040 2043 2594 3045 4240 4528 4531  
5096 6294 6296 6300 6302 6303 7223 8014 8015 8019  
8822 9344

## FINITE DEFORMATIONS

680 5096 6001

## MECHANISM

870 871 1728 1731 1732 4240 5095 6859 7716 9350

## MOLECULAR THEORY

1733 2835 4326 4531 4534 6001 7719 7722 9347

•SEE ALSO--- CONTINUUM MECHANICS, CONSTITUTIVE  
EQUATIONS -- CREEP -- DISLOCATION THEORY --  
VARIATIONAL METHODS, VISCOELASTICITY --  
VIBRATION, VISCOELASTIC -- VISCOPLASTICITY --  
WAVES, VISCOELASTIC

## VISCOPLASTICITY

384 1727 2045 3369 3373 5109 5649 6872 7041 8654  
8669 8691 8692 8823

•SEE ALSO--- WAVES, VISCOPLASTIC

## VISCOSITY

391 448 1150 1727 2833 4535 5465 6304 8020 8820  
8821

## MEASUREMENTS

1156 2045 4535 4537 4684 4889 5465 6305 7592 8166  
8167 9975

## METER

517 518 1295 1296 1297 2045 2046 2183 3373 4537  
6294 6297 6302 6305

•SEE ALSO--- GRAVITY WAVES IN LIQUIDS,  
VISCOS EFFECTS -- ROTATING CYLINDERS, FLOW  
BETWEEN -- THERMOPHYSICAL PROPERTIES,  
VISCOSITY

## VISCIOUS FLOW--- •SEE• FLOW, INCOMPRESSIBLE, VISCIOUS

## VOLCANOLOGY

3373

## VORTEX FLOW

414 1187 1191 2062 2079 2193 2236 2270 2871 2890  
3122 3682 3687 3960 4573 4630 5473 6336 7192 7231  
7418 8050 8848 8890 9824

## STREETS

413 1184 1207 2078 2862 2868 6437 7219 8143 8847  
8866 8950 8951 8997

## VORTEX TUBE

6411 7377 7470

## VORTICITY

1171 2146 2147 4560 5479 7189 7191 7199 8127

## VTOL

485 1061 1248 1251 2187 2336 2337 3977 3978 3980  
5590 6411 6597 6598 6810 6812 7292 7498 7499 7530  
9097 9098 9099 9100 9101 9715 9716 9895

•SEE ALSO--- GROUND EFFECT MACHINES -- HYDROFOILS,  
CRAFT -- STOL

## W

## WAKES

2095 2114 5509 5551 6388 7258 8058 8061 8100 8192

## WAKES •CONTINUED•

## BASE FLOW

1197 2081 4616 5514 5515 9753

## HYPERSONIC

5511 5555

## LAMINAR

422 463 3724 3493 5555 6311 6333 6345 8092 9802

## MEASUREMENTS

2081 2887 2910 5566 5572 5580 7234 7238 8103 8114  
9698

## THEORY

5549 5572 6311 7219 7220 7235

## TURBULENT

1209 2911 7216 7218 7220 7221 8865 9658 9698

•SEE ALSO--- FREE BOUNDARY, WAKES

## WALL JETS--- •SEE• JETS, WALL

## WALLS

361 2811 5419 5420 7136 9601

## SHEAR

229 362 3618 3620 5417 5418 6267 7111 7141 8792

## RETAINING

257 258 4354 5308 7035 8686

•SEE ALSO--- CONCRETE AND MASONRY, WALLS

## WATER HAMMER

1274 3789 4649 4651 7343 7344 8141 8947 9734

## WATERWAYS--- •SEE• CANALS

## WAVES

1015 1016 1532 1860 2735 3779 4132 4134 4288 4321  
4722 6075 6219 7079 8642 9725

## ACCELERATION

3482 9675

## ACOUSTIC

5 9 1028 1613 1848 1849 2375 3128 3131 3134  
3136 4302 4326 4878 4919 4923 5607 5610 6426 7246  
7531 8120 8138 8317 8318 8634 9133 9816 9925

## ATMOSPHERIC

724 725 728 731 4073 5854 6703 6706 9179

## ATTENUATION

652 1154 1275 1856 2166 2734 3137 3143 3775 4315  
5258 5802 7344 8134

## BARS AND BEAMS

199 1020 1021 1039 1046 1047 1856 1863 1880 2882  
2717 2718 2719 2726 3483 3484 3488 3489 3495 4324  
4325 5257 6109 6989 6990 6992 7846 7855 7856 8637  
8648 8649 8653 8656 8664 9476 9477 9478 9483

## BLAST

1903 4589 4591 5297 6498 7236 7241 8877 9009 9663  
9673

## CABLES AND STRINGS

1017 7853

## CAPILLARY

3862 9726

## COMPOSITES

1021 1024 1025 1030 3493 3495 4331 4332 5270 5272  
5273 5278 6105 6121 6995 6996 6998

## COMPRESSIONAL

3781 5608 6645 8135 8693 8884

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## WAVES \*CONTINUED\*

## CYLINDERS AND SPHERES

211 231 1028 1029 1031 1032 1036 1038 1867 1875  
2677 2720 3479 3492 3494 4326 4331 4545 5249 5250  
5251 5259 5265 6107 6112 6428 6987 6989 6993 6998  
7348 7850 8655 8661 9484 9486

## DETONATION

1033 1468 1630 2325 3115 4856 4857 5783 6107 9119  
9120 9121 9123 9919

## DISPERSION

199 384 1021 1275 1865 2166 2167 2414 2939 6109  
6121 6425 6703 7539 8699

## EFFECT ON FLOATING BODIES

3464 4653 5861 7339 8145 9994

## ELASTIC

199 226 227 228 231 1019 1022 1035 1051 1861  
1867 1870 1872 2367 2677 2715 2716 2717 2718 2719  
2720 2727 2728 3479 3480 3482 3485 3486 3487 4323  
4327 4330 4333 5205 5253 5254 5255 5262 5263 5264  
5265 5266 5267 5269 6106 6111 6445 6986 6987 6988  
6991 6994 6996 6997 7000 7844 7847 7852 7857 8643  
8645 8646 8648 8650 8658 8659 8660 8661 8663 9475  
9476 9480 9481 9489 9967

## ELASTOPLASTIC

384

## ELECTROMAGNETIC

1 219 384 713 1043 1424 3491 3499 5275 5276  
5279 5281 5282 5504 6645 8662 9482

## FINITE AMPLITUDE

497 983 1861 2716 8646

## FLUID

33 2054 2450 3137 4992 5608 6354 9475

## GENERATIONS

1054 1265 2167 2169 2414 3777 3783 3785 3790 5595  
5599 5600 9883

## GRANULAR MEDIA

238 8663 9486

## HALF-SPACE

189 229 992 1030 1034 1040 1042 1870 1871 1872  
1873 1877 3499 4327 4348 5263 6111 6962 7000 9233  
9481 9487 9489

## INCLUSIONS, INHOMOGENEITIES, CAVITIES

1019 1024 1027 1031 1033 1034 1045 1865 1875 1903  
2066 3479 3480 3487 4331 4332 5208 5209 5250 5251  
5260 5261 5266 6993 6994 7195 7844 7847 8644 8655  
8660 9425 9484 9486 9925 9934

## INFINITE MEDIUM

228 1027 1031 1875 3480 3481 5253 5264 5266 6993  
8645 9425

## INTERACTION

2374 2450 3136 5252 5281 5802 7534 9931

## LAYERED MEDIA

230 488 491 492 493 494 504 1044 1876 2367  
2734 2934 3134 5270 5272 5273 6115 6995 6996 6998  
8134 8659 8940 9487

## LIQUID FILMS

415 3019 3862 5605 5661 7336 9825

## MAGNETOELASTIC

1032 5281

## MEASUREMENT

719 1863 1864 1865 2725 2733 2933 3483 3493 3782  
5258 5279 6114 6116 7340 7842 7849 7854 8836 9478

## WAVES \*CONTINUED\*

## NONHOMOGENEOUS AND ANISOTROPIC MEDIA

189 233 599 1030 1045 1046 1861 1873 1880 2727  
2728 3484 3486 3491 3492 4329 4330 4333 4800 4888  
5249 5259 5269 5271 5273 5274 5276 6113 6422 6990  
6997 6999 7047 7845 7852 7857 7858 7859 7860 8134  
8135 8644 8657 8658 8661 9137 9484 9485 9928

## NONLINEAR

234 237 1023 1258 1266 2164 2166 2719 3482 3781  
4328 5271 6088 6583 7243 8637 8643 9475 9873

## ONE-DIMENSIONAL

3711 3713 3715 5269 6364 7242 7243 7245 7246 8071  
8937 9675

## PHASE AND GROUP VELOCITIES

1275 2164 3135 3138 3142 3712 6702 9724

## PLANE

654 2367 2371 2374 3130 3134 4017 5274 9133

## PLASTIC

1036 1038 1040 1047 1871 1876 1877 1879 2724 2733  
3483 3488 3489 3497 4324 5252 5280 5286 6112 6114  
6117 7004 7846 7851 7854 7855 7862 7866 8637 8655  
8656

## PLATES AND SHELLS

226 227 983 1022 1023 1024 1025 1026 1029 1101  
1864 1865 1874 1876 2705 2720 2721 2722 2723 2725  
3448 3485 3486 3497 4302 4326 4886 5259 5261 5262  
5267 5275 5282 6088 6105 6110 6117 6991 6992 7850  
7858 7859 8650 8651 8652 8657 8665 9490 9735 9739

## POROUS MEDIA

3184 5256

## PROPAGATION VELOCITY

384 1154 3142 4023 4024 4330 4885 5519 6160 6166  
6355 8023 8693 9675

## RADIAL

1615 2054 2167 3783 6112

## REFLECTION AND REFRACTION

228 230 234 494 654 1019 1026 1027 1028 1262  
1873 2365 2367 2410 2411 2415 2715 2721 2734 2736  
3130 3479 3495 3931 4028 4866 4921 5251 5272 6110  
6111 6115 6422 6423 6633 6987 6992 6993 7532 7536  
9137 9480 9733 9931 9935

## SCATTERING

228 1045 1872 2370 2371 3480 3487 4017 4882 5250  
5260 5266 6423 6986 6994 7532 7535 8336 9737 9930

## SEISMIC

710 711 712 714 1533 1534 1535 1536 1867 2408  
2409 2410 2411 2707 2715 2736 2934 3188 3189 3190  
3191 3193 3194 4917 4921 6115 6693 6694 6695 6696  
6698 6699 7005 7560 7561 7562 7563 7566 7569 7865  
8352 8353 8354 8356 8361 9164 9165 9962 9963 9965  
9966

## SEMI-INFINITE MEDIA

1037 5268

## SHEAR

492 493 654 1259 5274 6429 6430 6645

## SPECTRA

719 722 734 4865

## STRUCTURE

229

## SURFACE

490 654 660 720 721 1043 1872 2318 2699 2723  
3499 4315 4329 4811 6109 6174 6986 6988 7845 8023  
8647 8659 8662 9482 9825 9861

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
Issue:	January	February	March	April	May	June	July	August	September	October	November	December

## WAVES \*CONTINUED\*

THREE-DIMENSIONAL  
4023 7535 8075 8897 8938TORSIONAL  
211 1032 1036 3488 3494 5205 8355 9477VISCOELASTIC  
233 235 236 384 663 1025 1037 1275 2726 3490  
4328 5095 5268 5840 5841 6121 6990 6995 7856 8652  
8656 8664 9425 9478 9928VISCOPLASTIC  
1039 1042 1877 2725 8684 9483\*SEE ALSO\*--- GRAVITY WAVES IN LIQUIDS --  
IMPACT -- INTERFACE PHENOMENA --  
MAGNETO-FLUID-DYNAMICS, WAVES -- MARINE  
ENGINEERING, SHIP WAVES -- OSCILLATIONS IN  
FLUIDS -- PLASMA (NON-MEDICAL) -- SEISMOLOGY --  
SHOCK WAVES IN FLUIDS -- SHOCK WAVES IN SOLIDS --  
SONIC TESTING -- SOUND, WAVES -- ULTRASONICS --  
VIBRATION -- WAVES -- WATER HAMMERWEAR  
743 744 745 749 1071 1082 1567 1569 1570 1571  
1573 1580 1912 2015 2024 2432 2434 2435 2436 2443  
2444 3226 3229 3230 3231 3232 3233 3234 4087 4088  
4091 4092 4094 4096 4097 4098 4104 4382 4964 4966  
4968 4969 4970 4975 5371 5868 5869 5876 6722 6723  
6724 6726 7586 7590 7591 7600 7895 8384 8387 8388  
9196 9199 9200 9205 9206 10005 10006 10007\*SEE ALSO\*--- BEARINGS -- CAVITATION -- EROSION --  
FRETTING -- FRICTION -- LUBRICATIONWEATHER FORECASTING  
1555 7576\*SEE ALSO\*--- ARTIFICIAL SATELLITES, WEATHER  
SATELLITES -- METEOROLOGY, SYNOPTIC, ANALYSIS AND  
FORECASTING

WEIRS--- \*SEE\* HYDRAULIC STRUCTURES, WEIRS

WELDING  
1147 3653 3654 3656 3657 3658 4385 4389 4446 4447  
5446 5447 5448 5449 7166 8010 8817ARC  
2035 3652 8009DEFECTS  
4458INERT GAS, SHIELDED ARC  
1907 5445 7168LASER  
2036RESIDUAL STRESSES  
1145RESISTANCE  
1144 1146 3655 7167\*SEE ALSO\*--- BRAZING AND SOLDERING -- HEAT  
TREATMENT -- JOINTS AND JOINING PROCESSES --  
NONDESTRUCTIVE TEST TECHNIQUES AND INSPECTIONWELLS  
4344 6138 7876 9909OIL AND GAS  
4369 8391 8823 9161 9162

\*SEE ALSO\*--- DRILLING

WHIRLING AND CRITICAL SPEEDS--- \*SEE\* SHAFTS,  
WHIRLINGWHISKERS  
892 1156 2159

WIND--- \*SEE\* METEOROLOGY, WIND PRESSURE

WIND TUNNEL  
417 2241 3739 5469 7184 7372 9702 9757CORRECTIONS  
2192 2186 2187 3717 3830 6456 7250 7323 7378 8171  
8969 9705 9713HYPERSONIC  
7379 8970MEASUREMENTS  
364 484 485 519 1253 1257 2149 2151 2157 2418  
2923 3768 4072 4499 4633 4635 4637 4642 5233 5584  
5586 5588 6410 6412 6457 6631 7328 7374 7496 7983  
8130 8169 8923 8927 9095 9096 9130 9705 9708 9756  
9894 9982MODELS  
5233PLASMA  
3095 3835 3947 3964 5621 6590 9889SUBSONIC  
2187SUPERSONIC  
2185 3828 3829 6631 8170 9130 9710TRANSONIC  
2186 2188

\*SEE ALSO\*--- SHOCK TUBES

WING BODY COMBINATION--- \*SEE\* AERODYNAMIC  
INTERFERENCEWINGS  
480 483 3763 4631 6604 6605 8054DELTA  
484 1342 1727 2923 3762 6407 6408 7324 7325 9706HEAT TRANSFER  
1342 2918HYPERSONIC  
484 1727INCOMPRESSIBLE FLOW  
485PRESSURE DISTRIBUTION  
7262SLENDER  
439 482 3766 4630 4632 5504 8132 9714SUBSONIC  
1250 8128 8132SUPERSONIC  
1245 1727 2917 2922SWEEP  
8171UPWASH AND DOWNWASH  
479 481 8919\*SEE ALSO\*--- AERODYNAMIC INTERFERENCE -- AIRFOIL  
THEORY -- BOUNDARY LAYER, WINGS -- FLUTTER --  
OSCILLATIONS IN FLUIDS

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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WIRE DRAWING--- \*SEE\* DRAWING

## WIRES

1071 1961 2021 2589 4434 9560

\*SEE ALSO\*--- WHISKERS

## WIRES, EXPLODING

4862 6107 6672 8230

## WOOD STRUCTURES

378 917 5441 5442 5443 5542 5543 8790 9593

## WOOD, TIMBER AND PLYWOOD

2561 5441 5442 5443 5542 5543 5830 6005 6199 8584  
8790

X

## X-RAY TECHNIQUES

276 311 1580 1958 1965 2781 3540 4098 5316 5317  
5701 7084 7448 7893 7931 8702 9555

Review Numbers:	1-759	760-1602	1603-2453	2454-3264	3265-4131	4132-4988	4989-5890	5891-6749	6750-7612	7613-8412	8413-9218	9219-10030
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# Supplemental Journal Listing

The following publication list supplements the cumulative List of Publications Scanned for APPLIED MECHANICS REVIEWS which appeared in the 1968 Annual Index issue, and the Supplemental Journal Listing which appeared in the 1969 Annual Index issue. This Supplement contains 91 entries of which 65 are new titles to AMR and 26 are journals published under new or revised titles. Former titles will be shown with the new title entry.

Titles are listed alphabetically in the form in which they appear on the journal. All articles and prepositions have been included except those which begin a title. The list does not contain any cross-references and where the title has been changed the last known entry of the publication is given. The origin of the journal is listed following the title unless the title indicates the city and/or country of publication. Where the city does not appear as a part of the title, then the city is shown, followed by the name of the country if the city is not well-known.

- Advances in Biological and Medical Physics. *New York*
- Automatic Control. (Translation of *Avtomatika i Vychislitel'naya Tekhnika* by Faraday Press, *New York*)
- Ball Bearing Journal. *Gothenburg*
- Banyaszati es Kohaszati Lapok Banyaszat. *Budapest*
- Banyaszati es Kohaszati Lapok Kohaszat. *Budapest*
- BHP Technical Bulletin. *Melbourne, Australia*
- Biodynamica. *Madison, Wisc.*
- Bulletin Mathematique de la Societe des Sciences Mathematiques de la Republique Socialiste de Roumanie, Nouvelle serie. *Bucharest*
- Bulletin of JSAE. *Tokyo*
- Celestial Mechanics. *Dordrecht*
- Chemical Engineer. *London* (Formerly: Chemical Engineer, Transactions of the Institution of Chemical Engineers)
- Combustion, Explosion, and Shock Waves. (Translation of *Fizika Goreniya i Vzryva* by Faraday Press, *New York*) (Formerly: Combustion, Explosion, and Shock Waves. (Translation of *Nauchno Tekhnicheskie Problemy Goreniya i Vzryva* by Faraday Press, *New York*)
- Combustion Science and Technology. *New York*
- Communications of the ACM. *New York* (Formerly: Communications of Association for Computing Machinery)
- Computing Report for the Scientist and Engineer. *White Plains, New York*
- Consiglio Nazionale delle Ricerche Quaderni de "la Ricerca Scientifica." *Rome*
- Cosmic Electrodynamics. *Dordrecht*
- Earth and Extraterrestrial Sciences. *New York*
- Engineering Design Graphics Journal. *Boston* (Formerly: Engineering Design Graphics Journal)
- Engineering Fracture Mechanics. *New York*
- Gazeta Matematica, Seria A. *Bucharest*
- Geophysical Fluid Dynamics. *New York*
- Gidromekhanika. *Kiev*
- Hidrotehnica. *Bucharest* (Formerly: Hidrotehnica Gospodarirea Apelor Meteorologia)
- Hydrotechnical Construction. (Translation of *Gidrotekhnicheskoe Stroitel'stvo* by ASCE, *New York*)
- IEEE Transactions on Computers. *New York*
- Indian Journal of Engineering Mathematics. *Agra*
- Indiana University Mathematics Journal. *Bloomington, Indiana* (Formerly: Journal of Mathematics and Mechanics)
- Institution of Mechanical Engineers, Automobile Division, Proceedings, Part 2A. *London*
- Institution of Mechanical Engineers, Proceedings, Part 1. *London*
- Istanbul Teknik Universitesi Bulteni. *Istanbul*
- Jahrbuch der Deutschen Gesellschaft fur Luft- und Raumfahrt E.V. (DGLR). *Cologne* (Formerly: Jahrbuch der Wissenschaftlichen Gesellschaft fur Luft- und Raumfahrt E.V.)
- Journal of Aerosol Science. *New York*
- Journal of Membrane Biology. *New York*
- Journal of Fire & Flammability. *Stamford, Conn.*

- Journal of Physics A, General Physics. *London* (Formerly: Proceedings of the Physical Society, Journal of Physics A, (General). Series 2, *London*)
- Journal of Physics and Chemistry of Solids. *New York*
- Journal of Physics B, Atomic and Molecular Physics. *London* (Formerly: Proceedings of the Physical Society, Journal of Physics B, (Atomic and Molecular Physics), Series 2, *London*)
- Journal of Physics C, Solid State Physics. *London* (Formerly: Proceedings of the Physical Society, Journal of Physics C, (Solid State Physics), Series 2, *London*)
- Journal of Physics D, Applied Physics. *London* (Formerly: British Journal of Applied Physics)
- Journal of Physics E, Scientific Instruments. *London* (Formerly: Journal of Scientific Instruments)
- Journal of Quantitative Spectroscopy & Radiative Transfer. *New York*
- Journal of the American Society for Information Science. *Washington, D. C.* (Formerly: American Documentation)
- Journal of the Association for Computing Machinery. *New York*
- Journal of the Institution of Engineers, India, Industrial Development and General Engineering, IDGE. *Calcutta*
- Kongelige Danske Videnskabernes Selskab, Matematisk-fysiske, Meddelelser. *Copenhagen*
- Manufacturing Engineering & Management. *Milwaukee* (Formerly: Tool and Manufacturing Engineer)
- Memoirs of the Faculty of Engineering, Tamagawa University. *Tokyo*
- Microstructures. *Los Angeles*
- Mitteilungen Ingenieur- und Tiefbau. *Leipzig*
- National Research Council, Canada, Quarterly Bulletin of the Division of Mechanical Engineering and the National Aeronautical Establishment. *Ottawa*
- Ny Teknik. *Stockholm*
- Periodica Polytechnica, Architecture, Arkhitektura. *Budapest*
- Periodica Polytechnica, Chemical Engineering, Khimiya. *Budapest*
- Periodica Polytechnica, Mechanical Engineering, Mashinostroenie. *Budapest*
- Physical Review A, General Physics, 3rd Series. *New York* (Formerly: Physical Review)
- Physical Review B, Solid State, 3rd Series. *New York* (Formerly: Physical Review)
- Physical Review C, Nuclear Physics, 3rd Series. *New York* (Formerly: Physical Review)
- Physical Review D, Particles and Fields, 3rd Series. *New York* (Formerly: Physical Review)
- Polymer Science U.S.S.R. (Translation of Vysokomolekulyarnye soyedineniya (series A) by Pergamon Press, *New York*)
- Prace a Studie, Vyskumny Ustav Vodneho Hospodarstva. *Bratislava* (Formerly: Vyskumny Ustav Vodohospodarsky, Prace a studie)
- Proceedings of the Koninklijke Nederlandse Akademie van Wetenschappen, Series A, Mathematical Sciences. *Amsterdam* (Formerly: Proceedings Koninklijke Nederlandse Akademie van Wetenschappen)
- Proceedings of the West Virginia Academy of Science. *Morgantown*
- Quaderni di Calcolo Elettronico. *Rome*
- Radovi Zavoda Za Fiziku. *Belgrade*
- Regelungstechnik und Prozess-Datenverarbeitung. *Munich* (Formerly: Regelungstechnik)
- Regelungstechnische Praxis und Prozess-Rechentechnik. *Munich* (Formerly: Regelungstechnische Praxis)
- Report of the Castings Research Laboratory. *Tokyo* (Formerly: Castings Research Laboratory Report, Waseda University)
- Report of the Research Institute of Science and Technology, Nihon University. *Tokyo*
- Revue de la Soudure Lastijdschrift. *Brussels* (Formerly: Revue de la Soudure)
- Sahko Electricity in Finland. *Helsinki*
- SAMPE Journal. *Los Angeles*
- Science & Technology for the Technical Men in Management. *New York*
- Science Progres Decouverte. *Paris*
- Ship Structure Committee, SSC. *Washington, D. C.* (Formerly: US Ship Structure Committee Report)
- SIAM Journal of Mathematical Analysis. *Philadelphia*
- Skrifter Utgitt av det Norske Videnskaps- Akademi i Oslo, I. Mat.-Naturv. Klasse, Ny Serie. *Oslo*
- Soviet Physics Journal. *New York*
- Stahlbau Rundschau. *Vienna*
- Space Life Sciences. *Dordrecht*
- Studii si Cercetari Matematice. *Bucharest*
- Svetsaren. *Gothenburg*
- Technische Mitteilungen Krupp, Forschungsberichte. *Essen*

Technische Mitteilungen Krupp, Werksberichte. *Essen*

Trudy Ordena Lenina Fizicheskogo Instituta im  
P. N. Lebedeva Akademiya Nauk SSSR. *Moscow*  
(Formerly: Trudy Fizicheskogo Instituta im  
P. N. Lebedeva Akademii Nauk SSSR)

University of Illinois Engineering Experiment Station  
Bulletin. *Urbana*

US Department of Agriculture, Forest Service, Forest  
Products Laboratory, Research Note. *Madison, Wisc.*

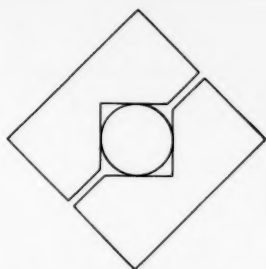
US Department of Agriculture, Forest Service, Forest  
Products Laboratory, Research Paper. *Madison, Wisc.*

Vyskumny Ustav Vodneho Hospodarstva, Bratislava,  
Informacie VUVH. *Bratislava*

Water Resources Research. *Washington, D. C.*

Werkstattstechnik, WT, Zeitschrift fur Industrielle  
Fertigung. *Berlin*





# **BOUNDARY LUBRICATION**

## ***An Appraisal of World Literature***

The increasing frequency of boundary lubrication problems, generally involving the development of more economically efficient or convenient machines or of apparatus and machinery to operate in exotic environments such as outer space, has led to this volume. Its aim is to provide an updated, comprehensive and critical appraisal of the world literature available in this field which will hopefully aid designer's understanding and thereby permit better design of apparatus and machinery to operate under boundary lubrication conditions. Covered are boundary lubrication related to machine elements with emphasis on aspects which should be important to designers, and current knowledge concerning basic science and engineering important to boundary lubrication. A broad interdisciplinary field is reviewed by a multidisciplinary group of expert authors.

### **PART I**

- Introduction
- Friction of Dry Surfaces
- Mechanisms of Wear
- The Physics and Chemistry of Surfaces: Surface Energy, Wetting and Adsorption
- Catalysis Studies Related to Boundary Lubrication
- Boundary Lubrication
- Fretting
- Physical Properties of Lubricants
- Requirements of Materials for Sliding and Rolling Contacts
- Solid Lubricants
- Transition to Boundary Lubrication from Elastohydrodynamic Lubrication
- Test Methods

### **PART II**

Includes over 2700 abstracts of important literature in the boundary lubrication field covering the period from 1946-1966 and also including some prior literature.

Over 600 pages, \$33.50, ASME members \$26.80

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## SUBJECT LIST

### RATIONAL MECHANICS & MATH METHODS

- Continuum Mechanics
- Analytical Methods
- Digital Computing and Programming
- Analogies and Analog Computation

### AUTOMATIC CONTROL

- Systems and Control
- Systems and Control (Optimal)

### MECHANICS OF SOLIDS

- Dynamics
- Elasticity
- Viscoelasticity
- Plasticity
- Composite Material Mechanics
- Strings, Rods and Beams
- Membranes, Plates and Shells
- Buckling
- Vibrations of Solids
- Wave Motion and Impact in Solids
- Soil Mechanics (Basic)
- Soil Mechanics (Applied)
- Rock Mechanics
- Material Processing
- Fracture (Including Fatigue)
- Experimental Stress Analysis
- Material Test Techniques
- Structures (Basic)
- Structures (Applied)
- Machine Elements and Machine Design
- Fastening and Joining

### MECHANICS OF FLUIDS

- Rheology
- Hydraulics
- Incompressible Flow (Nonviscous)
- Incompressible Flow (Viscous)
- Compressible Flow
- Rarefied Flow
- Boundary Layer
- Turbulence
- Aerodynamics
- Vibration and Wave Motion in Fluids
- Fluid Machinery
- Flow and Flight Test Techniques and Measurements

### HEAT

- Thermodynamics
- Heat Transfer
- Heat with Mass Transfer
- Combustion
- Prime Movers and Propulsion Devices

### COMBINED FIELDS

- Magneto Fluid and Plasma Dynamics
- Aeroelasticity
- Aeronautical Equipment
- Astronautics
- Explosions and Ballistics
- Acoustics
- Thermal Effects in Solids
- Micromeritics
- Porous Media
- Geophysics, Hydrology, Oceanography and Meteorology
- Naval Architecture
- Friction, Wear and Lubrication (Tribology)
- Biomechanics
- Biocontrol

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VOL. 24, NO. 3, SECTION 2, MARCH 1971

